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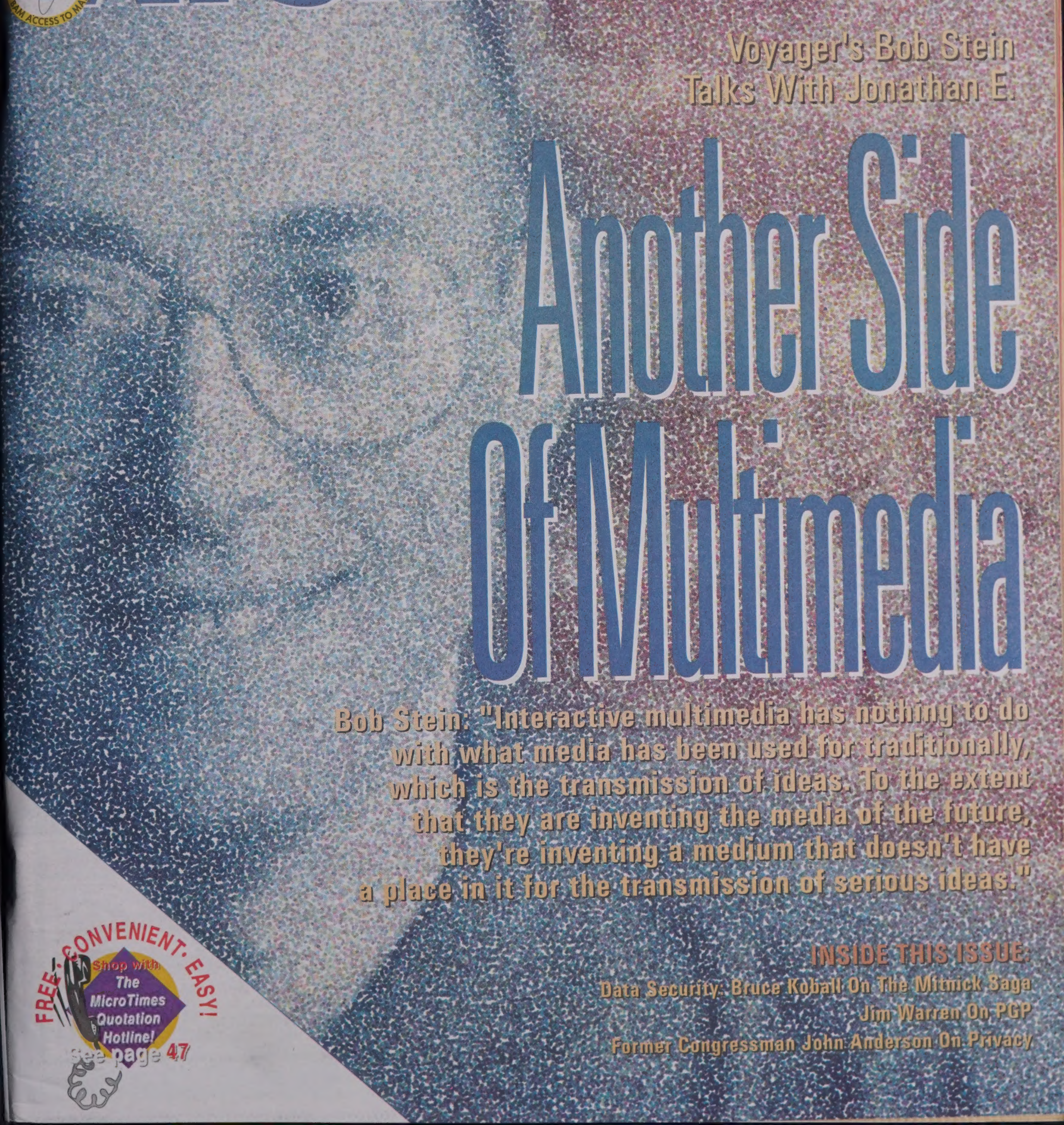

Voyager's Bob Stein
Talks With Jonathan E.

Another Side Of Multimedia

Bob Stein: "Interactive multimedia has nothing to do with what media has been used for traditionally, which is the transmission of ideas. To the extent that they are inventing the media of the future, they're inventing a medium that doesn't have a place in it for the transmission of serious ideas."

INSIDE THIS ISSUE:

Data Security: Bruce Koball On The Mitnick Saga
Jim Warren On PGP
Former Congressman John Anderson On Privacy

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See page 47

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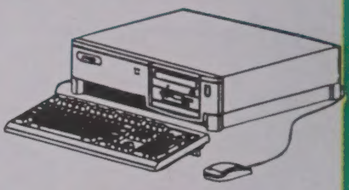

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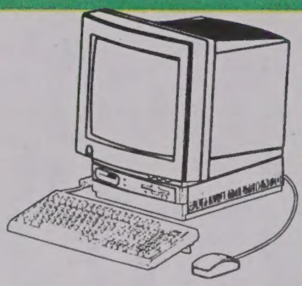

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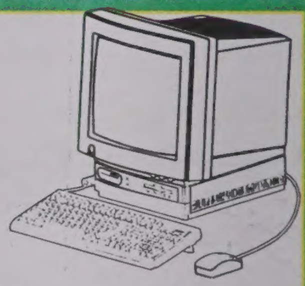

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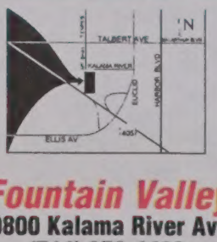

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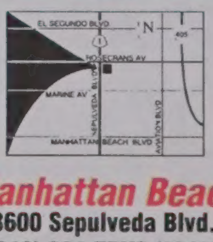

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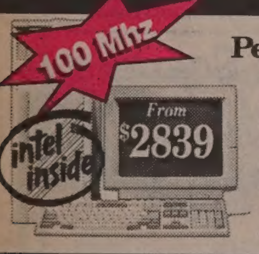
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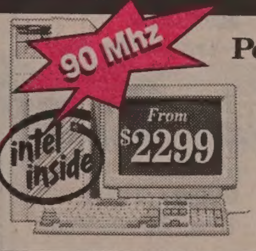
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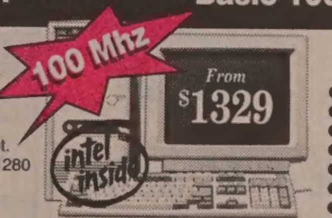
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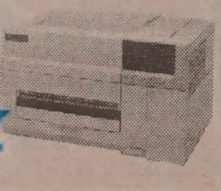

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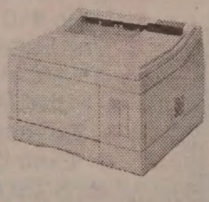

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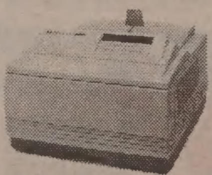

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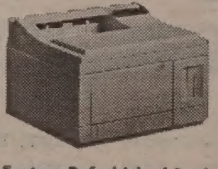

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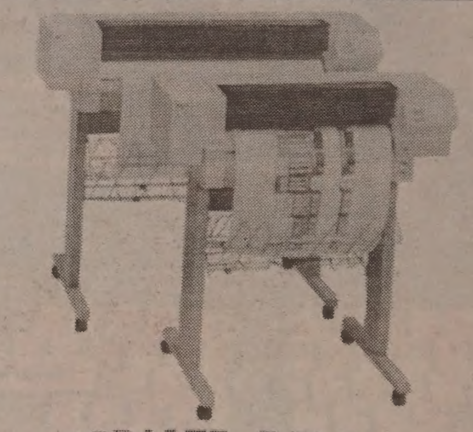

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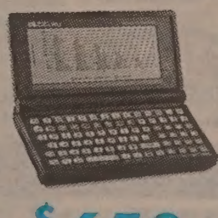

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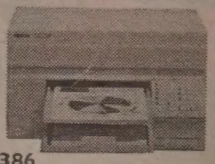

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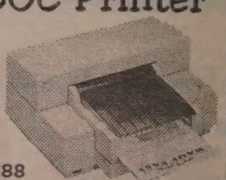

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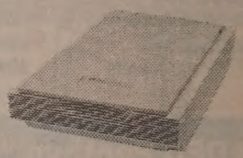

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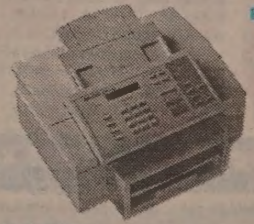

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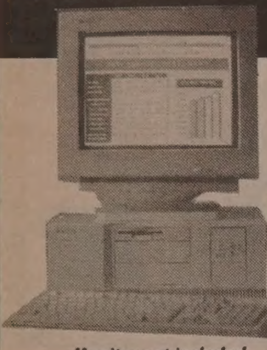

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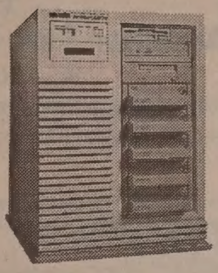

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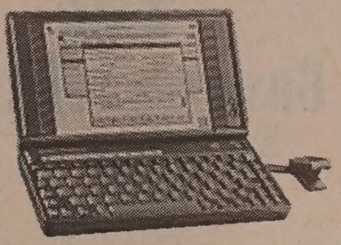

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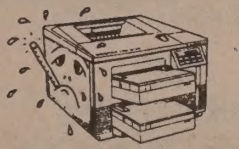

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Another Side Of Multimedia
BY JONATHAN E.
At the recent San Francisco Book Fair, our roving multimedia columnist caught up with new-media publisher Bob Stein, cofounder of Voyager, who often takes a contrarian view of the business. The ensuing discussion was provocative and lively.

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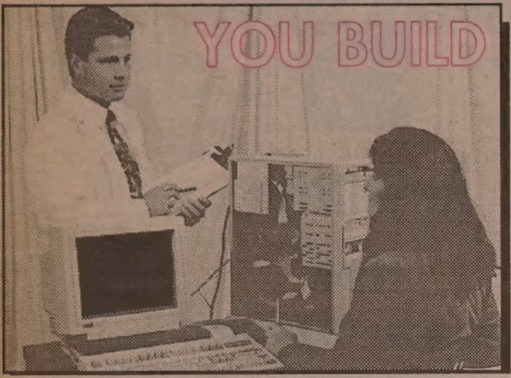

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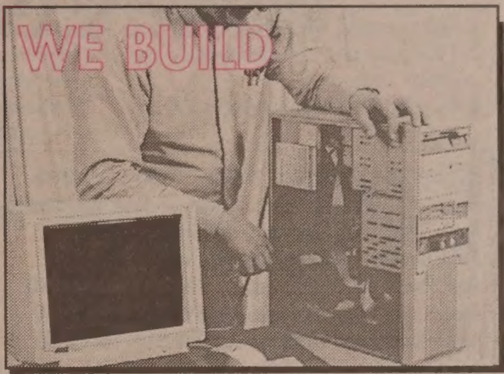

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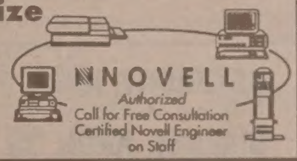

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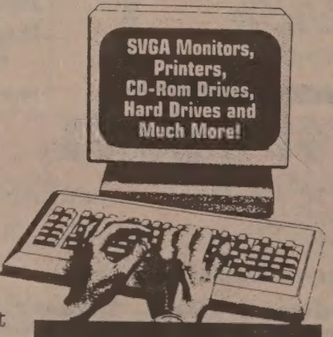

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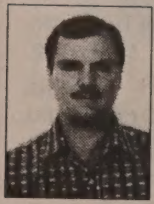

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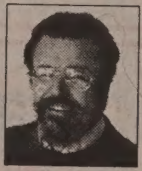

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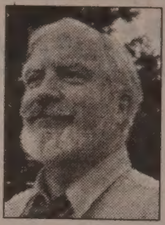

Jim Warren has received the Hugh M. Hefner First Amendment Award (1994), the James Madison Freedom-of-Information Award from the Society of Professional Journalists—Northern California (1994), and the Electronic Frontier Foundation Pioneer Award (1992, its first year). He led the successful 1993 effort to make state legislation and statutes available via the public nets without state fees.

He organized and chaired the landmark First Conference on Computers, Freedom & Privacy (1991), founded *InfoWorld*, was founding host of PBS's *Computer Chronicles* and founding editor of *Dr. Dobb's Journal*, and has chaired various computer and mathematics organizations. He holds graduate degrees in computing (Stanford), medical information science (UC Medical Center), and mathematics & statistics. He began working as a programmer in 1968, and was a mathematics teacher and professor for ten years before that. He also serves on Autodesk's board of directors.

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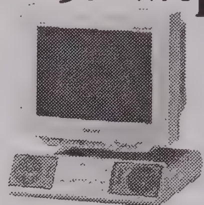

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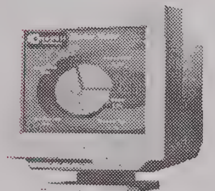

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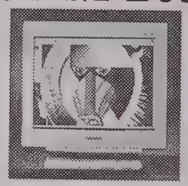

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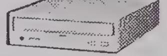

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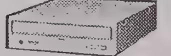

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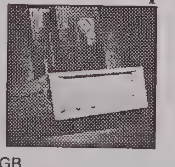


- Cap: 4GB
- Interface: SCSI-2
- Access time: 35 seconds maximum

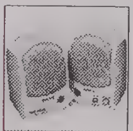
Int: $849 **Ext:** $979
SDT-5200/M

3.5" DDS-2 DAT Tape Drive

- Cap: 4GB w/o data compression
  8GB w/data compression
- Interface: SCSI-2
- Access time: 35 seconds maximum
- Sustained transfer rate: 366-732 KB/sec.

Int: $919 **Ext:** $1039
SDT-5000/M

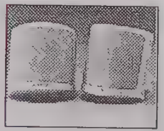
SRS-PC20
Personal Computer Speakers



- Built-in amplifiers: 1 watt per channel (2W)
- Speaker controls: Master volume, Bass boost

$33.99

SRS-PC30
Personal Computer Speakers



- Built-in amplifiers: 1.5 watts per channel (3W)
- Speaker Controls: Master volume, Bass boost

$62.99

SRS-PC50
Personal Computer Speakers

- Built-in amplifiers: 2.5 watts per channel (5W)
- Speaker Controls: Master volume, Bass boost

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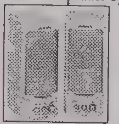
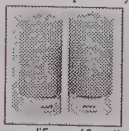
SRS-58PC
Active Stereo Speaker System



- Built-in amplifiers: 3 watts per channel (6W)
- Speaker controls:
  Independent volume for optimum stereo balance,
  Independent Dynamic Equalizer System

$84.99

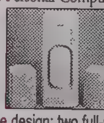
SRS-88PC
Active Stereo Speaker System



- Built-in amplifiers: 10 watts per channel (20W)
- Speaker controls:
  Independent volume for optimum stereo balance,
  Independent Dynamic Equalizer System

$129.99

SRS-D2KPC
3-Piece Personal Computer Speakers



- 3-piece design: two full-range, bass reflex speakers, one bass reflex subwoofer
- Speaker controls:
  Independent volume for optimum stereo balance,
  Independent Dynamic Equalizer System

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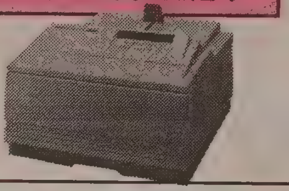

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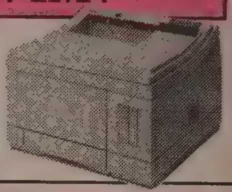

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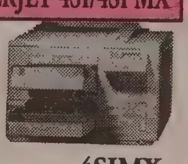

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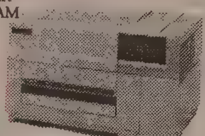

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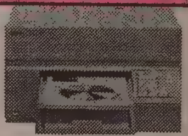

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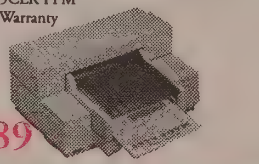

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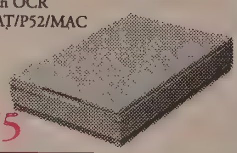

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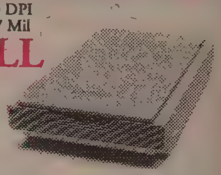

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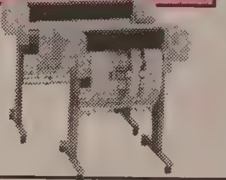

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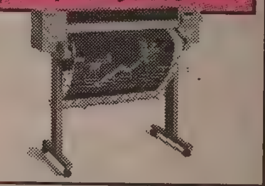

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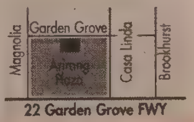

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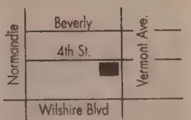

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BY PAUL HOFFMAN

Industry Insight

Lawyers In The News AGAIN, And Not Just At The O.J. Trial...

Federal Judge Overturns Antitrust Agreement Between Microsoft And Department Of Justice

Last summer, much of the microcomputer industry was upset that after many years, the Department of Justice decided to abandon its pursuit of Microsoft for monopolistic actions by signing a relatively lenient agreement. In fact, Microsoft said at the time that, based on the agreement, it would change hardly any of its business practices.

Apparently, the Justice Department assumed that the federal District Court judge who had to look over the agreement would find it to be appropriate.

He didn't. US District Court Judge Stanley Sporkin rejected the consent decree, claiming that it was not in the public interest. Specifically, he ruled that the decree didn't go far enough in punishing Microsoft for its previous transgressions; that the agreement didn't address major antitrust issues such as operating system monopolies; that it was unclear how the agreement would be monitored; and that the Justice Department didn't give the judge enough information in a timely manner. The long ruling from the court gave many specifics that indicate that Judge Sporkin found the Department of Justice and Microsoft too cozy about the agreement.

The Department of Justice expressed outrage at the judge's decision, saying that its agreement with Microsoft was the best that it could have achieved without taking Microsoft to court, a process that would have cost the Justice Department a great deal of time and money. The ruling, which the Justice Department and Microsoft are appealing together, leaves the industry nowhere. If the appeal fails (as well as a likely appeal to the Supreme Court if the first appeal fails), the Justice Department would be forced to choose among coming up with a new agreement with Microsoft, ignoring the agreement and prosecuting Microsoft for antitrust violations, or doing nothing.

Few in the industry feel that the agreement was the best that the Department of Justice could get; instead, it is clear that the Department of Justice didn't want to pursue the case very far, probably due to budgetary restrictions. Judge Sporkin essentially said that that wasn't a good enough reason to sign such a weak agreement.

The fact that the judge could rule at all on the case is a testament to how poorly the Justice Department has enforced antitrust laws in the hundred years or so they've been around. In the 1970s, Congress passed the Tunney Act (named for one of California's most populist senators, John Tunney) that forced agreements between the Justice Department and a company under investigation to be ratified by a District Court judge. The Tunney Act was a response to the flagrant abuse of power by the Nixon administration in letting big corporations act in monopolistic fashions by making toothless or minor agreements with the Justice Department.

While few are accusing the Clinton administration of being as sleazy as the Nixon administration with respect to chumminess with big business, the Microsoft agreement clearly showed that they were not willing to fight obvious abuses of power in the marketplace in court, or to make tough agreements. Thus, Judge Sporkin took an activist stand based on his view of the intent of the Tunney Act and tossed out the agreement.

The Department of Justice and Microsoft appealed the decision, saying that the judge improperly tried to look at the history of the investigation against Microsoft, and that he looked beyond the agreement to see whether Microsoft had been punished enough for acts not mentioned in the agreement. Further, the Department of Justice complained that his ruling threatened their ability to make agreements with other large companies, since those agreements would likely be questioned as well. In the days following the announcement, legal scholars and antitrust lawyers lined up on both sides of the decision.

Even if the appeal of Judge Sporkin's ruling is successful, it puts a cloud over relations between Microsoft and the Justice Department. Currently, the Justice Department is trying to decide whether or not Microsoft's purchase of Intuit, by far the largest seller of checking and tax preparation software, would be allowed under the antitrust laws. By attempting to purchase Intuit, Microsoft is admitting that it cannot gain enough market share just by improving its own competing software (Microsoft Money) or by beefing up its marketing. One part of the antitrust laws is specifically aimed at preventing nearly complete market domination through simple purchases of smaller competitors.

The Microsoft-Intuit deal has already been generating a great deal of opposition, not just from companies who might be competing in the same field. Other companies say that Microsoft's attempt to buy Intuit show that it has learned nothing

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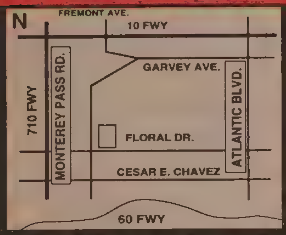

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since its agreement with the Justice Department, and that it might come after their markets whenever it chooses. Others worry that if personal finance is linked too closely to the operating system, it will be impossible in the future to develop new finance software without approval from Microsoft, a scenario that has become all to familiar to companies who accidentally became competitors with Microsoft after having already been in a particular market for years.

While some in the industry, even competitors of Microsoft, claim that the Department of Justice did the best it could without going to trial, Judge Sporkin clearly did not agree. While awaiting the results of the appeal process, which could conceivably take years, Microsoft may continue to use the heavy-handed actions for which it is notorious in the industry. On the other hand, Microsoft might back off a bit, lest the Department of Justice feel the need to look tough, take Microsoft to court on wider charges than were covered in the consent decree, and start rejecting Microsoft's attempts to buy competitors.

While that may sound like an unlikely scenario, remember that President Clinton may use Microsoft as a target in his attempt to "look tough" and "show resolve" in the face of adversity, knowing that such moves would really not hurt Microsoft much nor lose Clinton much in the way of campaign contributions next year.

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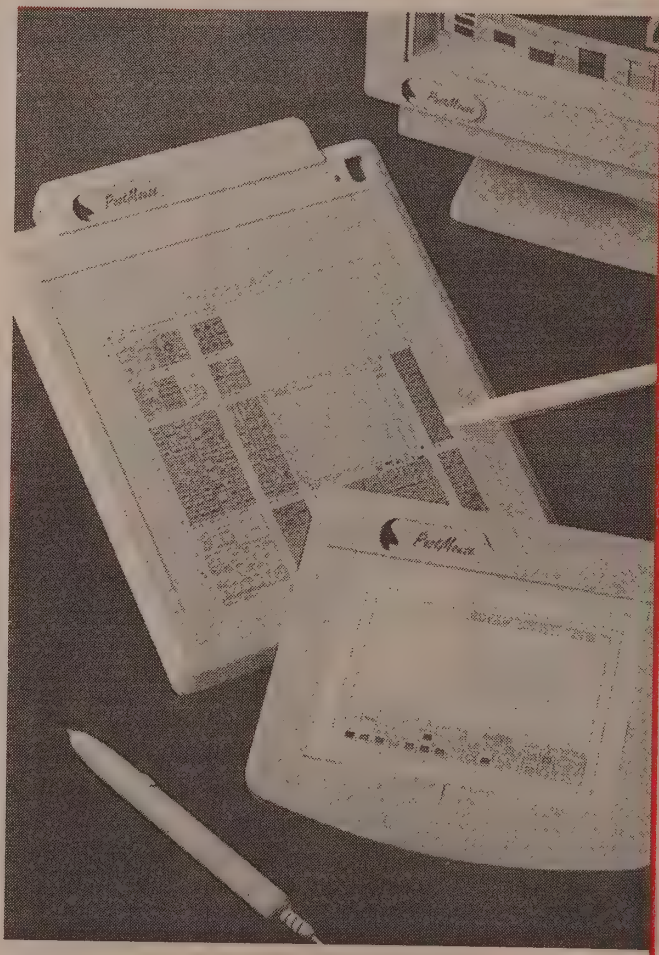

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> **Few in the industry feel that the agreement was the best that the Department of Justice could get; instead, it is clear that the Department of Justice didn't want to pursue the case very far, probably due to budgetary restrictions.**

In And Out Of Court, Apple And Microsoft Spar Over Just About Everything

Just when it seems like everything is starting to settle down between the giants of the computer industry, they start sniping at each other, lobbing lawsuits and accusations, and generally airing their private disputes in public.

The latest participants in the public attacks (which have started to resemble kids' standard "Did not!"—Did too!"—Tell him to stop bugging me!" routine) are Apple and Microsoft.

Apple has recently gone out of its way to make Microsoft look bad by accusing

continued on page 24

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TECHNOLOGY STOCKS FOLLOW DOW'S LEAD TO RECORD HIGHS

Microtimes Index Soars To Record High of 6042.96

EXCH	COMPANY	TICKER SYMBOL	CLOSING PRICE 02/16/95	CLOSING PRICE 03/15/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD	P/E RATIO	ANNUAL DIVIDEND RATE	ANNUAL DIVIDEND YIELD	ANNUAL HIGH	ANNUAL LOW
	SOFTWARE										
OTC	Adobe	ADBE	34.50	37.25	2.75	7.97	-	0.20	0.54	38.50	21.50
OTC	Autodesk	ACAD	36.00	41.50	5.50	15.28	36	0.24	0.58	41.50	23.25
OTC	Borland	BORL	7.63	9.25	1.63	21.31	-	0.00	0.00	15.13	6.00
OTC	Informix (H)	IFMX	36.50	38.38	1.88	5.14	39	0.00	0.00	39.75	14.25
OTC	Lotus	LOTS	46.75	40.75	-6.00	-12.83	-	0.00	0.00	85.00	29.75
OTC	Microsoft (H)	MSFT	60.88	70.50	9.63	15.81	33	0.00	0.00	72.00	41.00
OTC	Novell	NOVL	20.06	19.25	-0.81	-4.05	32	0.00	0.00	24.25	13.38
OTC	Oracle (H)	ORCL	30.75	32.75	2.00	6.50	43	0.00	0.00	33.88	17.50
OTC	Software Publishing	SPCO	4.25	3.75	-0.50	-11.76	-	0.00	0.00	7.63	3.00
OTC	Symantec (H)	SYMC	21.13	23.00	1.88	8.88	32	0.00	0.00	23.50	9.88
	HARDWARE										
OTC	Apple	AAPL	43.19	35.00	-8.19	-18.96	9	0.48	1.37	48.06	24.63
OTC	AST Research	ASTA	15.38	15.50	0.13	0.81	-	0.00	0.00	24.00	10.38
NYS	Compaq	CPQ	37.88	32.25	-5.63	-14.85	10	0.00	0.00	44.38	29.50
NYS	Digital Equipment	DEC	36.13	32.13	-4.00	-11.07	-	0.00	0.00	38.75	18.25
OTC	Dell	DELL	45.25	43.75	-1.50	-3.31	13	0.00	0.00	47.75	21.25
NYS	Hewlett-Packard (H)	HWP	115.88	120.25	4.38	3.78	17	1.20	1.00	121.88	71.88
NYS	IBM (H)	IBM	75.50	81.75	6.25	8.28	16	1.00	1.22	83.00	51.38
NYS	Silicon Graphics (H)	SGI	35.25	34.63	-0.63	-1.77	31	0.00	0.00	35.88	18.75
OTC	Sun Microsystems	SUNW	34.13	33.25	-0.88	-2.56	13	0.00	0.00	37.63	18.25
NYS	Xerox (H)	XRX	109.00	116.50	7.50	6.88	17	3.00	2.58	116.50	90.63
NYS	Tandy	TAN	46.00	47.00	1.00	2.17	16	0.72	1.53	52.38	30.75
	CPU'S										
NYS	Advanced Micro Devices (H)	AMD	31.13	34.63	3.50	11.24	11	0.00	0.00	35.63	22.25
OTC	Intel (H)	INTC	79.88	81.88	2.00	2.50	16	0.24	0.29	82.88	56.00
NYS	LSI Logic (H)	LSI	52.38	55.75	3.38	6.44	29	0.00	0.00	56.88	16.75
NYS	Motorola	MOT	64.25	56.88	-7.38	-11.48	21	0.40	0.70	64.75	42.13
	COMMUNICATIONS										
NYS	AT&T	T	51.38	52.13	0.75	1.46	17	1.32	2.53	57.13	47.25
NYS	BellSouth Corp.	BLS	58.50	59.00	0.50	0.85	14	2.76	4.68	63.50	50.50
OTC	MCI	MCIC	19.75	20.31	0.56	2.85	15	0.10	0.49	25.88	17.25
NYS	Northern Telecom	NT	35.00	36.63	1.63	4.64	23	0.36	0.98	37.75	26.00
NYS	Pacific Telesis	PAC	30.13	30.38	0.25	0.83	11	2.18	7.18	33.38	28.00

KEY: NYS = NEW YORK ASE = AMERICAN OTC = OVER THE COUNTER
(H) = NEW HIGH REACHED IN PERIOD (L) = NEW LOW REACHED IN PERIOD

MARKET DIARY:

ADVANCES....................	20
DECLINES....................	10
UNCHANGED................	0
NEW HIGHS..................	11
NEW LOWS..................	0

MOST ACTIVE ISSUES:

LARGEST DOLLAR GAINER....................	Microsoft	$	9.63
LARGEST DOLLAR LOSER....................	Apple................................	$	-8.19
LARGEST PERCENTAGE GAINER...........	Borland..............................		21.31 %
LARGEST PERCENTAGE LOSER............	Apple................................		-18.96 %

	CLOSE 02/16/95	CLOSE 03/15/95	NET CHANGE IN PERIOD	PERCENT CHANGE IN PERIOD
MICROTIMES STOCK INDEX	5961.54	6042.96	81.43	1.37
DOW JONES INDUSTRIAL AVERAGE	3987.52	4038.37	50.85	1.28
STANDARD & POOR'S 500 INDEX	485.22	491.88	6.66	1.37
N.Y.S.E. COMPOSITE	263.27	266.15	2.88	1.09
NASDAQ COMPOSITE	793.31	807.38	14.07	1.77

CLOSING QUOTES FOR GRAPH:

DATE	MICRO TIMES	DOW JONES
07/22/94	4577.29	3735.04
08/19/94	5070.19	3755.11
09/16/94	5323.66	3933.35
10/27/94	5478.47	3875.15
12/16/94	5370.37	3807.19
01/18/95	5832.57	3928.98
02/16/95	5961.54	3987.52
03/15/95	6042.96	4038.37

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High-tech stocks sprinted to higher ground during the month ended March 15, fueled by record-breaking performances by the Dow Jones Industrial Average and the S&P 500, among others.

When the books were closed on the trading session, here is how our industry fared last month: the MicroTimes Stock Index stood at a brand new record high of 6042.96, up 81.43 points, or 1.37%. Advancing stocks outpaced declining issues by a 20-to-10 count, while those stocks reaching new 52-week highs blanked those falling to new lows by an 11-to-0 count.

In comparison to the above record-breaking performances, the Dow Jones Industrial Average and the S&P 500 also plowed their way into uncharted territory, soaring to new highs of 4048.75 and 492.89, respectively, on Tuesday, March 14, before falling back a bit on profit taking.

Turning to stocks in the MicroTimes Stock Index:

Borland topped the leaderboard on a percentage-gained basis last month, as it ascended 21.3% before coming to rest at $9.25. The company won an appeal of Lotus Development's copyright infringement suit against it, saving Borland as much as $100 million in damages. Lotus fell $6 a share, or 12.8%, to conclude at $40.75.

Apple's share price turned sour last month, falling $8.19 a share, or 19%, before heading for the exits at $35. In mid-March, Morgan & Stanley lowered its opinion on the stock to "neutral" from "outperform." Separately, CNBC correspondent Dan Dorfman said he was informed by a Wall Street analyst that Apple could fall to $25 a share in the next twelve months. Among the reasons: gross margin pressure, compressed product life cycles, and nominally higher backlogs. Apple, not surprisingly, was the largest dollar and percentage-loser of the portfolio last month as a result of the above events.

Microsoft rocketed $9.63 a share higher, or 15.8%, before calling it quits at $70.50, but not before it hit a new 52-week high of $72 during the period. Intuit's chairman, Scott Cook, said last month that "there is no legal case" to block Microsoft's proposed $1.5 billion acquisition of Intuit. Microsoft was the largest dollar-gainer of the portfolio last month. ■

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- 101 Enhanced Keyboard
- Lifetime Labor Warranty
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- 72-Hour Burn-In Test

386DX-40MHz (Upgradable to VESA 486SX/DX)	$523
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486DX2-50MHz	$599
486DX2-66MHz	$639

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- Lifetime Labor Warranty
- 1 Year Warranty Parts
- 72 Hour Burn-In Test

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IBM 486SLC2-66MHz	$769
486DX2-80MHz	$855
486DX4-100MHz	$925
→ Pentium PCI 60 MHz	$1075
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intel inside

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486VLB DX4-100MHz	$1495
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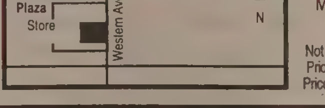

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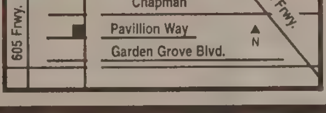

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Industry Insights

continued from page 20

Microsoft of stealing program code and not giving Apple sufficient access to early copies of Windows 95. Microsoft, in turn, has accused Apple of lying and blowing the dispute out of proportion.

It's hard to say just what got Apple upset first. A few months ago, Apple accused Canyon, one of its contractors, of selling source code from Apple's QuickTime for Windows software to Microsoft and Intel. The software greatly accelerates the ability of Windows-based systems to show video clips. Apple's QuickTime for Windows (and its similar software for the Macintosh) is widely acknowledged as being much faster in showing video than Microsoft's Video for Windows product.

A little while later, Apple had wide-ranging talks with Microsoft covering such issues as the probably misappropriated code, the competition between Apple's OpenDoc software and Microsoft's OLE software, Apple getting access to enough copies of Windows 95, and Microsoft's popular application products on the Macintosh, such as Word and Excel. At around the same time, the US Supreme Court rejected Apple's final appeal to its 1988 lawsuit against Microsoft for infringement of Apple's visual copyright. Further, Microsoft insulted Apple by saying that the code was not important and could be replaced with just a few weeks of work on the part of its programmers.

OLE and OpenDoc are different software platforms that allow programs to interact and exchange data; OLE is Microsoft's software, OpenDoc is Apple's. Most developers who have worked with both say that OpenDoc is far superior to OLE, but they also note that OLE is already in the market and OpenDoc won't be released for many months. Last year, Microsoft tried to get Windows 95 software developers to promise not to also work on OpenDoc, but backed down when some of the developers complained in public about the move.

After the meeting, Apple sent a letter to US District Court Judge Stanley Sporkin, accusing Microsoft of unfair trade practices with respect to Windows 95 and OLE. In the letter, Apple said that Microsoft had threatened to discontinue working on its Macintosh applications if Apple continued to push OpenDoc. Further, Apple said that Microsoft's withholding of sufficient copies of Windows 95 beta software was evidence of Microsoft's monopolistic tendencies. The letter arrived in Judge Sporkin's office the day before he ruled against the Microsoft agreement with the Department of Justice, and the judge says that the letter had no effect on his ruling.

Microsoft claims that it did not threaten to stop developing Macintosh software, which is believable because Microsoft sells more than half a billion dollars of Mac software every year. Microsoft also claims that Apple agreed to talk to it before bringing lawsuits in the future, and failed to do so in the video code case. On the other hand, Microsoft also started using obfuscating tactics with respect to the video source code by saying that the code wasn't in Windows 3.1 and wouldn't be in Windows 95. That's true, but only because the code comes with software that Microsoft sells to video developers and it comes with every Windows video program you buy. After Apple got a restraining order on Microsoft's use of the disputed code, Microsoft agreed to remove the code from its developer kit and replace it with its own code. It is not clear whether that code will be faster or slower than Apple's code.

Given the two companies' general attitudes and the way they treat publicity about each other, it is likely that neither is telling the truth. The most likely scenario is that Microsoft tried to pressure Apple to drop OpenDoc because Microsoft is worried about developers using OpenDoc instead of OLE. Apple chose to purposely misinterpret the pressure as anticompetitive and went whining to Judge Sporkin and the public about it. Microsoft is clearly worried about the quality of OpenDoc, and Apple thinks that complaining in public about Microsoft will win it support.

Separately, Apple probably discovered that the video software contractor had sold its source code to Microsoft and decided to try to pressure Windows video software developers into also supporting Apple's QuickTime standard by suing Microsoft and making threats against the developers unless they also became QuickTime developers. Microsoft chose to bluster about how insignificant the Apple code was, at the same time hinting that the code wasn't really Apple's and that they weren't really using it anyway.

In both circumstances, Apple acted like Apple by suing for the perceived publicity value, and Microsoft acted like Microsoft by pretending that it was always right and that no one cares when other companies make better software. Both attitudes hurt their respective customers and leave a bad taste in the mouths of their prospective customers. ■

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Intel 486-66

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Panasonic CD 2x Speed
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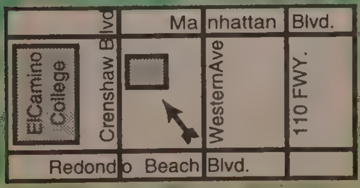
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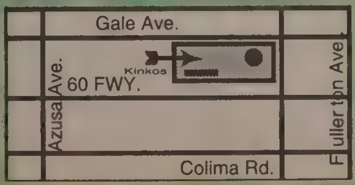
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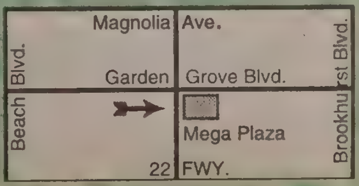
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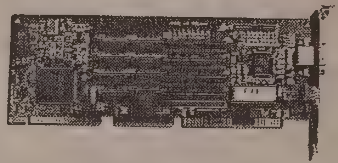

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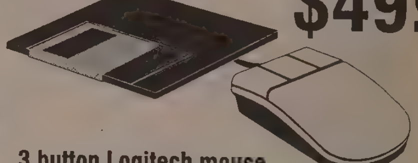

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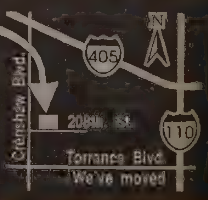

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REALIZABLE FANTASIES • BY JIM WARREN

Is Phil Zimmermann Being Persecuted For PGP?

If Zimmermann loses, he goes to prison for years of *mandatory* incarceration. When he comes out, his young daughter will be a teenager. All because he dared to write a cryptographic program that the government couldn't crack, that someone else made available to US citizens.

I write this on March 2, envisioning the possibility of being enjoined from speaking or writing about the subject further by a federal grand jury in San Jose next Tuesday.

Subpoena Follows Op-Ed

On Wednesday, February 22, an op-ed piece that I wrote appeared in the *San Jose Mercury News*, captioned, "Encryption could stop computer crackers." In the wake of massive Internet break-ins, I urged adopting nationwide, standardized, by-default, end-to-end data communications and file encryption using the most secure scrambling technologies that are publicly known and published worldwide. I criticized the FBI and NSA (National Security Agency) for zealously—and successfully—opposing all such protection, thus seriously endangering innocent citizens and law-abiding businesses.

On February 26, a similar op-ed of mine appeared in the Sunday edition of the combined *San Francisco Examiner* and *San Francisco Chronicle*, emphasizing the unnecessary danger and billions of dollars of losses resulting from the government's preoccupation with protecting, and greatly enhancing, its eavesdropping capabilities.

> But thugs don't pick on targets that can defend themselves. Goons go for the frail and weak and helpless
> —like Phil Zimmermann.

Three days later, two US Customs Special Agents appeared at my home, unannounced, and soon handed me a federal grand jury subpoena. I am "commanded to appear and testify before the Grand Jury of the United States District Court" on March 7. The subpoena was dated February 27—the first workday after the Sunday *Examiner's* op-ed piece.

Whoever said government is inefficient?

Interview Recording Prohibited

The agents—two pleasant, businesslike young women—said they were here about Phil Zimmermann and his encryption software known as PGP, "Pretty Good Privacy."

I laughed and said, "Oh—okay, come on in," and led them up to my office, grabbing a tape recorder along the way.

I sat down and—prominently turning on the recorder—said, without being confrontational, that I'd like to record the interview.

Whoooppps!—flag on the play. They said they would want to take a copy of the tape with them when they left. That was fine with me, so I turned off my recorder and went for a second recorder from my car.

Drat!—I wish I'd left the recorder running, because when I returned, they had decided they needed approval from Assistant US Attorney Bill Keane, the AUSA in charge of investigating Zimmermann and PGP.

They called Keane. He was out. They left a message, then said that—in the absence of his approval—they would have to forgo the interview, and made motions to leave. I was curious about what they wanted, and it occurred to me that I probably couldn't record my testimony before the grand jury, anyway. So after some discussion, we agreed not to record. In the process, they offered to allow me to copy their interview notes—which I thought was a rather neat show of good faith.

However, before we began, the senior agent looked at me with a moment of clear hesitancy and suspicion, and asked several times that I verify that our conversation was not being recorded. I did, pointing out that it would be a criminal misdemeanor—in California—if I recorded them in this private place without their knowledge.

Partway through the interview, Keane returned his agent's call. I asked if he would say why we couldn't record the interview, with both of us having a tape. He said only that he didn't wish to have it done.

Apparently we citizens aren't the only ones who are paranoid.

Real-World Big Brother

The interview was relaxed, candid, and cordial. The agents said they were just seeking the facts of what actually happened—to wit:

On April 10, 1991, shortly after the Gulf War, a message from *WHMurray@dockmaster.nccsc.mil* cascaded across the computer nets, warning about one sentence

continued on page 196

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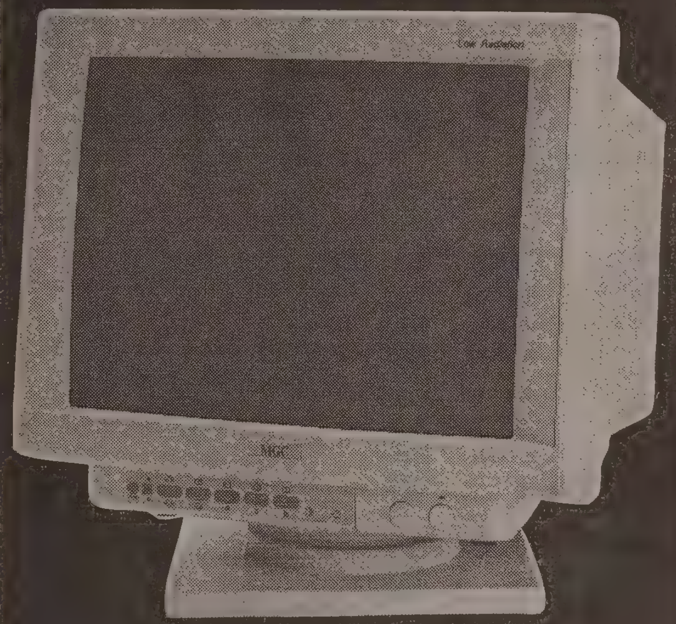

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buried in a massive "anti-terrorism" bill authored by Senators Biden and DeConcini. Their Senate Bill 266 declared, "It is the sense of Congress that providers of electronic communications services and manufacturers of electronic communications service equipment shall ensure that communications systems permit the government to obtain the plain text contents of voice, data, and other communications when appropriately authorized by law."

Bill Murray, then a computer security consultant to the NSA, wrote (emphasis added):

"The referenced language requires that manufacturers build trapdoors into all cryptographic equipment and that providers of confidential channels reserve to themselves, their agents, and assigns the ability to read all traffic.

"Are there readers of this list that believe that it is possible for manufacturers of crypto gear to include such a mechanism and also to reserve its use to those 'appropriately authorized by law' to employ it?

"Are there readers of this list who believe that providers of electronic communications services can reserve to themselves the ability to read all the traffic and still keep the traffic 'confidential' in any meaningful sense?

"Is there anybody out there who would buy crypto gear or confidential services from vendors who were subject to such a law?

"David Kahn asserts that the sovereign always attempts to reserve the use of cryptography to himself. Nonetheless, if this language were to be enacted into law, it would represent a major departure. An earlier Senate went to great pains to assure itself that there were no trapdoors in the DES [federally adopted Data Encryption Standard]. Mr. Biden and Mr. DeConcini want to mandate them.

"The historical justification of such reservation has been 'national security'; just when that justification begins to wane, Mr. Biden wants to use 'law enforcement.' Both justifications rest upon appeals to fear.

"In the United States the people, not the Congress, are sovereign; it should not be illegal for the people to have access to communications that the government cannot read. We should be free from unreasonable search and seizure; we should be free from self-incrimination.

"The government already has powerful tools of investigation at its disposal; it has demonstrated precious little restraint in their use.

"Any assertion that all use of any such trapdoors would be only 'when appropriately authorized by law' is absurd on its face. It is not humanly possible to construct a mechanism that could meet that requirement; any such mechanism would be subject to abuse.

"I suggest that you begin to stock up on crypto gear while you can still get it."

The Net went ballistic over this Orwellian mandate.

When Murray's message flashed across the nets, thousands of us were infuriated—and frightened.

PGP—Pretty Good Privacy

Prior to this, Phil Zimmermann, a sometime cryptographer and small computer consultant near the University of Colorado in Boulder, had been developing a PC implementation of public-key encryption, as described in the open literature, published worldwide more than a decade earlier. He had idle thoughts of possibly making it available as shareware, perhaps for educational purposes for fellow crypto hobbyists. He called it, "PGP"—Pretty Good Privacy.

But public-key crypto using any reasonably robust key sizes is reputed to be uncrackable. And intentionally building a back door into a beautiful crypto implementation is about like welding a tractor tire on the back of a classic '63 Corvette—*obscene!*

Kelly Goen, located in the San Francisco Bay Area, was also interested in crypto. He and Zimmermann became acquainted—as is common among technoids with similar interests. In that context, Zimmermann apparently give Goen a copy of PGP—also common behavior among us propeller-heads.

S. 266 Goads Guerrilla Crypto

When Murray's message flashed across the nets, thousands of us were infuriated—and frightened. In the wake of the Gulf War, S. 266 seemed likely to become law, permanently prohibiting Americans from having the privacy protection that technology could easily provide.

S. 266 would also prohibit PGP—at least in any respectable form.

So—with more than a little of the spirit of freedom that is the heritage of all Americans, and to help citizens "stock up on crypto gear while you still can"—it was decided to make this privacy protection tool available to everyone, immediately. Goen would upload copies—fully annotated sources, binaries, and documentation—to as many BBSes (bulletin board systems) and host computers around the United States as possible. Zimmermann agreed—especially since S. 266 would soon outlaw PGP.

A Nighttime Call

Goen sent email to *MicroTimes* on May 24th, saying, "The intent here is to invalidate the so-called trap-door provision of the new Senate bill coming down the pike before it has a possibility of making it into law." He said we could publish details about it, "provided of course mum is the word until the code is actually flooded to the networks at large."

He also called me—as a *MicroTimes* columnist, and probably because I had organized the recently completed First Conference on Computers, Freedom & Privacy, or maybe because of my comments on the Net critical of the S. 266 mandate.

I had several conversations with Goen, and later with Zimmermann—who seemed more passive about the project. Now, four years after the fact, this is reconstructed from random notes I took at the time, plus my recollections—some of which remain quite vivid.

continued on page 183

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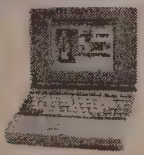

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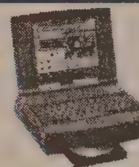

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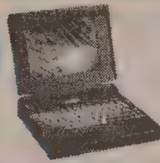

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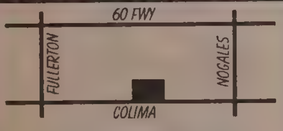

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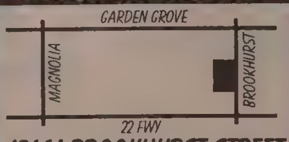

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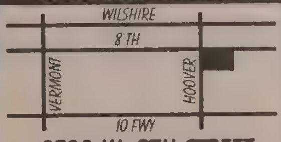

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BY JOHN ANDERSON

Remarks To The RSA Data Security Conference

The following *is excerpted from former Congressman and presidential candidate Anderson's keynote address on January 9 at the RSA Data Security Conference, an annual gathering of cryptography experts sponsored by RSA Data Security.*

In the audience Q&A that followed Anderson's talk, he was asked whether he believed that individual citizens had the inherent right to keep secrets from their governments.

Anderson's reply, accompanied by much applause:

"I certainly believe that yes, there is a personal right of privacy that means you can keep secrets from the government. Put me down with an emphatic affirmative for that proposition. You don't really have to use the somewhat difficult and even sophistical explanation that Justice Douglas once did when he talked about the emanations that come from the penumbra that surrounds the First Amendment. I would put it much more flatly.

"Larry Tribe, a good friend of mine and a distinguished professor of constitutional law at the Harvard Law School, puts the right of privacy in terms of the inherent human right to autonomy, to personhood. To believe that you are, in your personhood, entitled to know certain things, and to entertain certain opinions, and to have certain feelings, and that there is no obligation that all of that has to be dished out to the federal government or to any level of government."

* * * * *

In reflecting upon my role as keynoter before this very distinguished gathering of some of the world's greatest cryptographers, men of science, pillars of success in the business community—all of that has left me feeling properly humble, perhaps to the point where I should resume the political career I left some years ago.

Because, in a more serious vein, I really believe that only those that are humble enough to admit that they surely do not know all the answers, particularly in this very difficult and complex field, are those who, in the spirit of a genuine seeker for the truth, can endeavor to seek out the best answers.

Thomas And Self-Government

We saw the opening of the 104th Congress last Wednesday; on the very next day it was announced by the new Speaker that "a participatory dialogue on self-government" would become available worldwide through the Internet. I hope that "Thomas," so named in honor of our third president Thomas Jefferson, will promptly begin to give us the full text of bills from the last Congress, and also directory information, committee schedules, and House session schedules. And before the month is out, all full texts of all new legislation that is being introduced into this 104th Congress. I think it can be a very useful thing indeed.

We can rejoice at the fact that government being online may indicate that winds of change are blowing through the stale and musty corridors on Capitol Hill that formerly opened on little hideaway offices, the hideaways of a select and senior few who could make deals about little-known matters, some that were not widely known about until the die was irrevocably cast.

In unveiling the new online Congressional information system, Speaker Gingrich used the well-worn but still time-honored phrase: "Knowledge is Power." Jefferson, the man for whom that system is named, is remembered for saying that he would "swear upon the altar of Almighty God eternal hostility against every form of tyranny over the mind of man," and it was also he who said that "if a nation expects to be ignorant and free, in a state of civilization, it expects what never was and never will be." And who also declared that "sometimes it is said that a man cannot be trusted with the government of himself."

When we get into the issue of the Clipper chip and the effort of government to make standards in data protection, we are suggesting, it seems to me, that man cannot be entrusted with the kind of self-governance that would be involved in leaving to the private sector and to the free enterprise community the standard-setting in that regard.

But Jefferson went on: "Have we found angels in the form of kings to govern him?"

He believed that there was "no safe depository of the ultimate powers of soci-

When we get into the issue of the Clipper chip and the effort of government to make standards in data protection, we are suggesting, it seems to me, that man cannot be entrusted with the kind of self-governance that would be involved in leaving to the private sector and to the free enterprise community the standard-setting in that regard.

ety, but the people themselves." Those are the words of the man for whom this new information system has been named.

Fear Itself, And The Law Of Unintended Consequences

I accepted an invitation about a year ago to become a member of the advisory board of the Electronic Privacy Information Center (EPIC) because I believe that as the infrastructure of a national information system is being put in place, we are going to be faced with very real threats to the privacy of electronic communications, to the public-key system, which is what this conference is about.

Why? It is because there are paralyzing fears of a spread of international terrorism, or of narco-terrorism, where you have the unholy union and wedlock of the drug trade and those who would use the proceeds of that illicit enterprise to finance their fanatical political goals.

It is true, as a result of the fears that have been generated in this regard, that there are those who believe that the answer lies in constructing an Orwellian surveillance society. Not only in the area of heightened criminal activity, but in more generalized concerns that exist about the preservation of our national security in an increasingly anarchic post-Cold War world, with the virulent new nationalisms that it has spawned. Voices are heard advocating that we curb anonymous transmissions, and also, in the area of encryption to protect the confidentiality of digitized data and information, that we make the government the repository of the keys that would decode that encrypted material.

Who doesn't want to protect the security of this country? Who doesn't want to wage a war against crime? Those, I think, are givens. I would submit to you, ladies and gentlemen, that these advocates, however well-intentioned, forget that when it comes to government, there is what Senator Daniel Patrick Moynihan once referred to as the Iron Law of Unintended Consequences that attends some of the good things that government says it is going to do for you.

Back in the mid-'50s in the Eisenhower era we launched the National Defense Highway System—the great network of superhighways that now spans the continent from one end to the other. Moynihan used that as an illustration of the fact that even though it was proposed and enacted as a national defense highway system, and it was in the name of national security that the billions that it would cost were asked from the taxpayers, the planners never dreamed of the fundamental social, political, and economic changes that would ultimately be wrought by the construction of that system. It changed patterns of living, it changed the economic development of our country, and it brought other deep and profound societal changes, some very good, some undoubtedly far less beneficent.

My point is obviously not to stand here and condemn the building of arteries of transportation, any more than I am against completing, in logical and speedy fashion, a national information infrastructure. But I cite that example to illustrate the profound nature of the changes that can be brought about by government, which are so often totally unanticipated.

My friend and EPIC colleague David Banisar pointed out a few months ago in *The Federal Bar News and Journal* that we need to give some very deep thought to the dangers that may lie ahead, to use his phrase, as we see "roadblocks being set up on the information highway." Is it really going to enhance data protection, or will it leave a large residue of public dissatisfaction at a reduction in what both business and private individuals feel is the important concern that they have for the security of information, which is an important property right, and therefore presumably under all of the legal protections that calls for?

But even more important, as far as I'm concerned as an admitted non-expert in this field, is the preservation of our democratic heritage as free men and free women who enjoy untrammeled freedom of expression that is protected by those essential guarantees that were enacted as amendments in the form of the Bill of Rights by the very first Congress of the United States.

Security Tradeoffs

Maybe before we embrace expanded wiretapping and a Digital Telephony system that is now being proposed, before we accept the rationale that they are indispensable weapons in our defense against criminal and subversive activity, perhaps the time has come to look off in a different direction and consider the sphere of important rights that are linked to personal freedom and autonomy, rights that could be thereby seriously eroded.

Policymakers in most Western industrialized democracies have for several decades evinced varying degrees of concern about the portents of a loss of privacy as computerized information systems have seen the explosive growth of databases compiled from intensely personal information.

Spiros Simitris, who has been described as a pioneer in the officialdom of data protection, put it most succinctly: "a challenge to human rights and the very structure of a democratic society." There is something almost Promethean about the implications of this tapestry that can be woven about the lives of modern men and women from the collection and the dissemination of information about virtually every human activity. Their health records, their finances, their credit transactions, their employment history, the patterns of their consumption right down to the itemized list that you get when you put your Safeway cart on the counter and your groceries are bought and paid for. All of this, and an almost infinite amount of other information, can become part of the data kept by others in both the public and private sectors.

All of this, Simitris says, correctly in my opinion, can have negative implications for the quality of life in our societies and for the protection of human rights—if we are not alert to the need to protect the confidentiality of such data, to protect not only the government but the people as well.

The View From Washington

Your program suggests that I will give you an insider's view of such things as: What credence really should be attached to the rumored demise of such proposals as the Clipper chip? What about the future of the program to, within four years, install Digital Telephony, to implement that proposal?

Last Wednesday I did exploit my fabled insider status that is reserved for former members of Congress. I abandoned my aerie in South Florida as a constitutional law professor at Nova-Southeastern University Law School, and I attended the first session of the 104th Congress. After all, I thought, it was history in the making, because for many weeks now, ever since November 8, the air has been heavily laden with all the symbolism that in the past has only attended a presidential inaugural.

The new Speaker-to-be very early on appointed a transition team, something normally associated with a change in presidential administrations. The transition team speedily went to work, and the mantra of Change so endlessly repeated by the forty-second president of the United States during his campaign and thereafter, was almost entirely taken over by the man whose semi-cherubic countenance almost instantly appeared on every national news magazine cover.

He made it clear in an endless round of radio, TV, and newspaper interviews that in the words of the folk singer of a few years ago (an era of which our new Speaker does not seem to be overly fond), yes, "the times they are a'changing," and added that the place where the changes would be announced would be the rostrum, the Speaker's chair of the US House of Representatives. It will not be at the other end of what has been called the longest mile in the world, the White House. He was not alone in that; in a post-election speech, the former majority leader, now the minority leader of the House of Representatives, Mr. Gephardt, said, "We are going to take our plans for future action not from the White House but from the houses of America as we reach out to assuage the needs of the long-beset and forgotten middle class."

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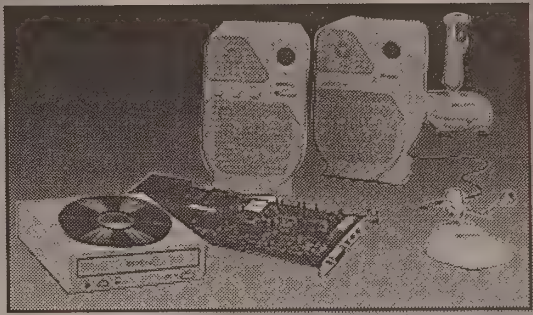

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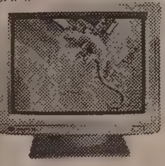

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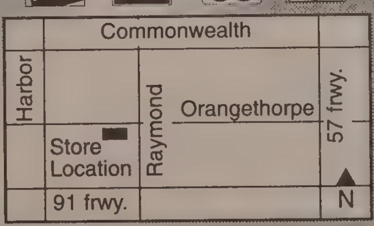

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RSA Data Security Conference *continued...*

I would be a little bit skeptical that quite all that has been promised will come to pass. In a few days you will hear a State of the Union message where it can safely be predicted, of course, that the president will be trying to regain the initiative. We may see a much-revivified president prepared to challenge the notion that the foundations of a new political order have indeed been laid.

But as I shook hands with the new Speaker last Wednesday, and had an opportunity for a brief conversation with him, even more so was I strengthened in the belief that something rather profound has occurred.

I went next to the offices of the new majority counsel of the Commerce Committee, which plays such an important role in the field of telecommunications. I talked not only with him but also with senior staff members, particularly those on the Telecommunications subcommittee, formerly headed by Ed Markey, now to be headed by Jack Field, the Republican from Texas, as the new chairman. They definitely will be returning very quickly, I gathered, to such things as the far-reaching Telecommunications bill that was dumped by Fritz Hollings rather unceremoniously back in October because he didn't want to make the accommodations that some members were seeking. There seemed to be a belief that that would be very much a priority item on the agenda of the committees.

I took the opportunity to speak with the new chairman of the House Judiciary Committee, an old friend of mine from Illinois, Henry Hyde. I talked to Henry about my concerns about the privacy issue and how it would be dealt with in the 104th Congress. I communicated those same concerns to the staff members that I have referred to.

I can only report that I got the very distinct feeling, both in my conversations with chairman Hyde when I was on the floor, and later in the committee offices with the chief aide to the subcommittee chairperson, that privacy views are something that they are interested in hearing about. I was told, "Be sure to mark it Personal when you send me a communication, and you can be sure that it is going to be read."

That encourages me. I don't want to be so overly optimistic that I think that the battle has been won and the war is over and all of the rest, but I like to believe in a new attitude that seems to be permeating the body—which is anti-regulation; which was elected, after all, on one overwhelmingly popular and basic premise, that government had stuck its long nose under the tent too far, in too many different ways. And as important as the deficit was, important as it was to talk to people about taxes and welfare reform, I think myself the most significant issue was that overpowering sentiment that we want a government restructured, and pulling back from some of the overly intrusive efforts it has been making.

In the EPIC *1994 Cryptography and Privacy Sourcebook*, which has been my Bible on this subject, I found the very informative testimony that Dr. Diffie [Sun Microsystems scientist Whitfield Diffie, cocreator with Stanford professor Martin Hellman of the public key concept] gave before the Law and Technology Subcommittee in May of last year. He made a very good point that I believe will resonate with the majority that is now in control, particularly of the House.

He said, "If cryptography comes to present such a problem that there is a popular consensus for regulation, this will be just as possible to accomplish in a decade as it is today. The horse will not be out of the barn. If, on the other hand, we set in place the precedent of building government surveillance capacities into our security equipment, we risk entrenching a bureaucracy that will not easily surrender the power that gives them that right." And having dealt with a bureaucracy over more than a score of years, I am convinced that from this distinguished scientist from the private sector came truly words of wisdom that will resonate very well with those who now are in majority control.

I believe that as they frame policies not only for the rest of this decade but even beyond, that they ought to keep in mind that the real engine that has spawned innovation and development in the field of technology is something that cannot be constrained artificially in a way that will depress the activity

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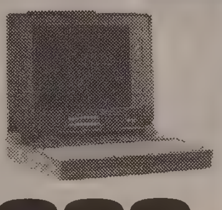

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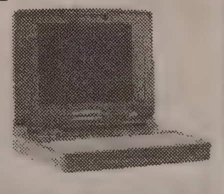

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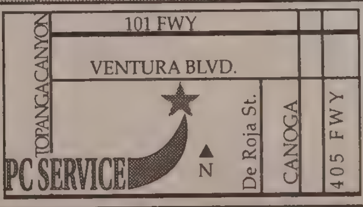

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AMD 486 DX4-100	$999.00
AMD 486 DX4-100	$999.00
Intel 486 DX4-100	$1049.00

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- 4 MB Ram (70ns)
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- Mid Tower Case w/230w PS
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- 8 MB Ram (70ns)
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- High Resolution Mouse
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- 101 Key Keyboard
- High Resolution Mouse
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- PCI SCSI II Controller
- Diamond Stealth 64 PCI w/ 2 MB
- MAG 17" SVGA-NI Digital .28 DP Monitor (1280x1024)
- 101 Key Keyboard
- High Resolution Mouse
- Premium Full Tower Case w/ 8 Drive Bays
- Sound Blaster 16 Compatible Sound Card
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- 14 CD Titles
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Pentium 100MHz	$3799
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Pentium 75MHz	$3449

- Pentium PCI Mother Board
- 16 MB Ram, 256K Fast Cache
- 1.2 and 1.44 MB Floppy Disk Drives
- 1.06 GB Fast Wide SCSI-3 HDD
- Adaptec 2940W PCI Wide SCSI-3 Controller
- Diamond Stealth 64 PCI w/ 2 MB
- MAG 17" SVGA-NI Digital .28 DP Monitor (1280x1024)
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OPTI Mini 486 VLB DX4 w/256K Cache(72 Pin)	$99.00
OPTI Mini 486 VLB w/256K Cache(Combo)	$97.00
Amptron 6900-486 w/256K Cache(Combo)	$95.00
LT Mini 486 VLB w/256K Cache(Combo) DX4	$95.00
Vega (USA) 486 VLB w/256K Cache(72 Pin)	$149.00
Vega (USA) 486 VLB w/256K Cache(30 Pin)	$139.00
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Amptron 386 DX-40 w/128K Cache w/CPU	$95.00

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MICROPROCESSORS (CPU)

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Intel 486DX4-100 MHz	$269.00
AMD 486DX4-100 MHz	$229.00
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Intel 486DX2-66 MHz	$179.00
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Adaptec AHA-1522K SCSI floppy/hard adapter card	$89.00
Adaptec AHA-1542CF SCSI bus master adapter card	$189.00
Adaptec AHA-2742TK EISA SCSI bus master host adapter card	$349.00
Adaptec AHA-2842K VLB SCSI bus master host adapter card	$199.00
Adaptec AHA-2940 PCI wide SCSI-3 host adapter card	$249.00
Adaptec AHA-2940 PCI fast SCSI-2 host adapter card	$219.00

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Conner CFS 540A - 540mb IDE	$185.00
Conner CFA 850A - 850mb IDE	$269.00
Conner CFA 1275A - 1.2GB IDE	$369.00
Conner CFP 1060S - 1.06GB SCSI-2	$469.00
Conner CFA 1060SW - 1.08GB Wide SCSI-3	$529.00
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Maxtor MX-7850A - 850mb IDE	$259.00
Maxtor MXT-71260A - 1.2GB IDE	$399.00
Quantum 420mb IDE	$169.00
Quantum 540mb IDE	$209.00
Quantum 540mb SCSI	$239.00
Quantum 730mb IDE	$265 00
Quantum 1080S - 1.08GB SCSI	$529.00
Quantum 2GB SCSI	$969.00
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Samsung 560mb IDE	$179.00
Segate 3660A - 540mb IDE	$181.00
Segate 31200A - 1.05GB IDE	$449.00

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Segate 31200N - 1.6GB SCSI	$539.00
Segate 12400N - 2.4GB SCSI	$999.00
Western Digital AC2420 - 420mb IDE	$179.00
Western Digital AC2540 - 540mb IDE	$219.00
Western Digital AC2850 - 850mb IDE	$275.00
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Pac CS-11 desktop case w/200w power supply	$43.00
Pac CS-21 mini tower case w/230w power supply	$43.00
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Pac CS-41 full tower case w/230w power supply	$79.00
Diamond KS-330 mini tower case w/220w power supply	$69.00
Diamond KS-230 mid tower case w/250w power supply	$95.00
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Diamond KS-730 desktop tower case w/250w power supply	$71.00
API GT151 mini tower case w/230w UL power supply	$69.00
API GT210 mid tower case w/250w UL power supply	$105.00
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2nd fan for diamond case	$10.00

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Trident 9000 VGA w/512K	$35.00
Trident 8900 SVGA w/1mb	$57.00
Trident 9440 VLB SVGA w/1mb	$69.00
Cirrus Logic 5428 VLB SVGA w/1mb	$69.00
S-3 VLB SVGA w/1mb	$68.00
Diamond Stealth 64 VLB w/2mb	$175.00
Diamond Stealth 64 PCI w/2mb	$175.00
Diamond Viper SE VLB w/2mb VRAM	$289.00
Diamond Viper SE PCI w/2mb VRAM	$279.00
Diamond Stealth 64 VLB w/2mb VRAM (expandable to 4mb)	$279.00
Diamond Stealth 64 PCI w/2mb VRAM (expandable to 4mb)	$279.00
ATI Mach 64 VLB w/2mb DRAM	$179.00
ATI Mach 64 PCI w/2mb DRAM	$177.00
ATI Mach 64 VLB w/2mb VRAM	$269.00
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Acer 56Z 15" SVGA-NI (Green)D	$315.00
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CTX 1451ES 14" SVGA-NI	$219.00
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CTX 1765GM 17" SVGA-NI (Green)D	$575.00
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MAG MX	call
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Viewsonic 15 15" SVGA-NI (Green)D	$385.00
Viewsonic 17G 17" SVGA-NI (Green)D	$679.00
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Viewsonic 20 20" SVGA-NI (Green)D	$1399.00
Viewsonic 21 21" SVGA-NI (Green)D	$1699 00
KFC 1511 15" SVGA-NI	$279.00
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Mitsumi 4x internal IDE	$175 00
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NEC 4x internal SCSI-2 OEM	$349 00
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Plextor 4x internal SCSI OEM	$299.00
Sanyo CDR-94A 2x internal	$105 00
Sony 55E 2x internal IDE	$109 00
Toshiba 3501 4x internal SCSI	$289.00
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Smartone 14.4 internal data/fax	$79.00
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Smartlink 14.4 internal data/fax	$69.00
Smartlink 19.2 internal data/fax	$89.00
Smartlink 14.4 internal data/fax/voice	$79.00
Smartlink 14.4 external data/fax	$89.00
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Smartlink 28.8 external data/fax	$199.00
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U.S. Robotics Sportster 14.4 external data/fax	$115.00
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U.S. Robotics Sportster 28.8 external data/fax	$239.00

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Colorado FC-10 500kb/s - 1mb/s adapter kit	$80.00
Colorado 1GB and 2GB internal and external	call
Conner Tapestor 250 internal	$135.00
Conner Tapestor 420 internal	$175.00
Conner Tapestor 250 external	$269.00

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A-4 Tech serial mouse	$9.00
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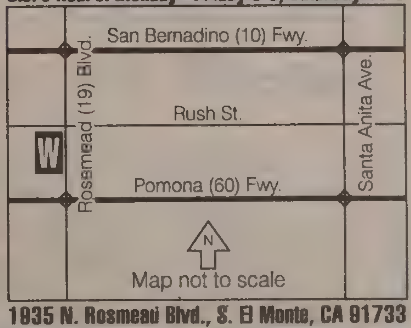

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RSA Data Security Conference

continued from page 38

that ought to be going on.

We have heard very good testimony about the impact of export controls, that without the incentives for private industry to go ahead in technological innovations because of export controls, that we are at real risk of losing markets.

Although I have not yet talked to him, I did read the statement that the new chairman of the House Committee on Science, Congressman Walker from Pennsylvania, made in talking with five of the heads of scientific bureaucracies within the federal government. He said, and I quote, "You can expect to get less money, but you'll also be expected to make more cuts, to cooperate more with private industry, and to simplify and get past the idea that government programs give the government officials in charge of those programs a right to be contemptuous about the views of other people."

In other words, he said, if you're going to meet the scrutiny of oversight that this committee will hold, you've got to be prepared to demonstrate a more business-friendly approach.

The new majority in the 104th Congress has already demonstrated their acceptance that they believe in the globalization of the economy. It has arrived. They were the tower of strength to whom the current president was obliged to look before adjournment when Congress took up NAFTA. There was great dissention within his own party, and it was really the core of strength that he was able to hold onto there that enabled him to sign that legislation.

They accept the idea that, like it or not, we have arrived at a stage in our economic development where we have to participate in and be engaged in a global economy. That spells good news for those of us who feel that we are not participating to the full extent that we should in the global economy when we impose the kind of export controls that the government seems to be fond of.

The Undead Clipper

I should say a word about the question of the morbidity, or lack thereof of the Clipper chip program.

I am not satisfied when the vice president undertakes to write a letter as he did, suggesting that, "Well, this is only going to apply to telephone systems, and you really don't have to worry because we're open to alternative proposals of an undisclosed nature as we continue to deal with the problem." I'm not very convinced myself that this is going to mean any surcease from the relentless continuing effort of members of the intelligence community to go even further in the steps that they would like to see to control the encryption process.

I agree with my friend David Sobel, who will present his views later today, that once you start tinkering in this way to give parties in the government, outside the private sector, access into a system, you build vulnerability into the public key system that works well in our country. I would simply add to that my own feeling that the data protection industry cannot stop its continuing effort to see that the message is repeated loudly and clearly that the tinkering should stop. That backdoor or trap-door methods of accessing private data with government agents heavily involved as key escrow agents is a fundamentally bad idea.

I go back to the House report that was issued way back in 1987 on the Computer Security Act that was enacted that year. As I read that report, I am convinced that what has gone on this past year truly violates the spirit of the Computer Security Act. Courts have many times said that they will look to the language of reports to construe and interpret the meaning of Congress in enacting legislation.

In that report, they warn about the NSA's involvement in the development of civilian computer standards. "It could have a chilling effect on the vigorous research and development that is ongoing in the academic community and the domestic computer industry [whose] rapid technological advances have been due in large part to being free to openly exchange ideas without governmental interference. NSA's inherent tendency to classify everything at the highest level is bound to conflict with this broader goal." Thus spake the representatives of the people when they enacted the Computer Security Act of 1987.

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- PCI Enhanced IDE Controller
- 15" Flat Screen Super VGA Monitor
- PCI Diamond Stealth 64/2MB VRAM
- 2 Serial, 1 Parallel & 1 Game Ports
- Medium Tower or Desktop Case
- 101 Enhanced Keyboard
- Serial Mouse w/ Pad

486DX2-66	**$2045**
486DX4-100	**$2150**
PENTIUM-66	**$2216**
PENTIUM-75	**$2338**
PENTIUM-90	**$2638**
PENTIUM-100	**$2828**

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- 15" Flat Screen Monitor
- 2 Serial, 1 Parallel, 1 Game Port
- Mini Tower or Desktop Case
- 101 Enhanced Keyboard
- Serial Mouse w/Pad

486DX2-66 VLB	**$1782**
486DX4-100 PCI	**$1862**
PENTIUM-66 PCI	**$1935**
PENTIUM-90 PCI	**$2357**

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PC VLB i486SX-25/256K/3VLB/ZIF/4x30pin+2x72pin	163
PC VLB i486SX-33/256K/3VLB/ZIF/4x30pin+2x72pin	185
IBM OPAL VLB486SLC2-66MHz/64K/MATH./2VLB	**165**
PC VLB i486DX2-66Mhz/256K/3VLB/ZIF/4X30+2X72Pin	**187**
SIS VLB i486DX2-66Mhz256K/3VLB/ZIF/4x72pin	297
PC VLB AMD486DX2-80Mhz/256K/3VLB/Green	265
PC VLB AMD486DX4-100Mhz/256K/3VLB/Green	325
PC VLB i486DX4-100Mhz/256K/3VLB/Green	365

PCI:

UMC PCI/VLB AMD486DX2/66/256K,72P	307
UMC PCI/VLB AMD486DX4/100/256K(512K),72P	355
Mylex PCI/ISA P-75Mhz 256K(512K) Award Bios	660
Mylex PCI/ISA P-90Mhz 256k(512K) Award Bios	880
Mylex PCI/ISA P-100Mhz 256K(512K) Award Bios	1010
Intel Pentium Plato 66MHZ/256K/IDE+I/O	595
Intel Pentium Plato 75MHZ/256K/IDE+I/O	**680**
SIS/OPTI PCI ISA PENITUM-90MHZ/256K/72P	806
Intel Pentium Plato 90MHZ/256K/72p/IDE+IO	**915**
Intel Pentium Plato 100MHz/256K/IDE+I/O	1065
PCI EISA PENTIUM-90MHZ DUAL PROCESSORS, 4PCI/4EISA/1CPU	1275

VIDEO CARDS

CIRRUS LOGIC 5401 16BIT/800x600/256K	24
TRIDENT 9000 SVGA 16BIT/1024x768/512K	35
TRIDENT SVGA 8900-X 16BIT/1280x1024 /1MB	55
CIRRUS LOGIC, 5428 VLB, 1MB/2MB DRAM	69/114
DIAMOND SPEEDSTAR PRO SE 1MB/2MB DRAM (OEM)	105/145
DIAMOND STEALTH 64 VLB, 1MB/2MB DRAM (OEM)	138/184
DIAMOND STEALTH 64 VLB, 2MB/4MB VRAM (OEM)	**275/415**
DIAMOND VIPER SE VLBP 2MB/4MB VRAM (OEM)	270/405
ATI GRAPHICS WINBOOST VLB-64 1MB/2MB DRAM	149/189
ATI GRAPHICS WINBOOST VLB-64 2MB/4MB VRAM	265/465
TRIDENT 9440 PCI 1MB/2MB DRAM	70/115
DIAMOND STEALTH 64 PCI, 1MB/2MB DRAM (OEM)	135/181
DIAMOND STEALTH 64 PCI, 2MB/4MB VRAM (OEM)	**271/415**
DIAMOND VIPER SE,2MB/4MB VRAM (OEM)	270/405
ATI GRAPHICS WINTURBO PCI-64 1MB/2MB DRAM	139/179
ATI GRAPHICS WINTURBO PCI-64 2MB/4MB VRAM	255/455

CONTROLLER CARDS

IDE CTRL WITH IO(2H/2F/2S/P/G)	13
AT HIGH SPEED IO W/IDE (5100AT)	28
VLB HIGH SPEED IO W/ENHANCED IDE (6100VL)	40
VLB ENHANCED IDE/IO (SIS/GS)	23
VLB EHNANCED IDE/IO (HOTEK/UMC)	19
VLB DTC2278D IDE/IO (MODE 4)	28
ADAPTEC 1542CF SCSI-II CTRL CARD(BARE)	196
ADAPTEC 1542CFK SCSI-II CTRL W/KITS	250
ADAPTEC 1542CFK plus Corel-designed SCSI software	295
ADAPTEC 2742TK EISA SCSI-II CTRL W/KITS	390
ADAPTEC 2742TK plus Corel-designed SCSI software	460
ADAPTEC 2842A VLB SCSI-II CTRL (BARE)	205
ADAPTEC 2842AK VLB SCSI-II CTRL W/KITS	235
ADAPTEC 2940 PCI SCSI-II CTRL (BARE)	215
ADAPTEC 2940K PCI FSCSI-II CTRL W/KIT (Oem Pkg)	**215**
ADAPTEC 2940K PCI FSCSI-II CTRK W/KIT (Original Pkg)	295
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AT I/O 2S/1P/1G	11
High speed AT IO (2s/p) 16c550 chips	26
PRINTER CARD	11
PRINTER CARD (UP TO 2 PORTS)	13
TWO PRINTER PORT CARD	19
RS-232 SERIAL CARD (2 Serial Ports)	12
4 PORT XENIX/UNIX SERIAL CARD	55
4 PORT XENIX/UNIV SERIAL CARD W/16550 CHIPS	95

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MITSUMI 1.2MB BEIGE	36
TEAC 1.44MB BEIGE WITH KITS	35
MITSUMI 1.44MB BEIGE WITH KITS	33
TEAC 2.8MB 3.5" FLOPPY DRIVE	90
TEAC 1.2&1.44 DUAL FLOPPY DRIVE	89

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CONNER CFS420A 420MB/13ms/64K IDE	179
CONNER CFA540A 540MB/12ms/256K IDE	195
CONNER CFA850A 850MB/12ms/256K IDE-3	266
CONNER CFP1060S 1.06GB/9.5ms/512K F-SCSI-2	471
CONNER CFA127A 1.2GB/12ms/256K E-IDE	380
CONNER CFP2105S 2.1GB/8.5ms/512K F-SCSI-2	818
CONNER CFP4207S 4GB/8.5ms/F-SCSI-2	1430
W.D. AC2420 425MB/13ms/128K IDE	185
W.D. AC2540 540MB/11ms/128K IDE	215
W.D. AC8500 850MB IDE	300
W.D. AC31000 1.08GB IDE	395
W.D. 1.22GB IDE	415
MICROPOLIS 4221/AV 2.0GB/8.5ms SCSI-2	980/1095
MICROPOLIS 1936 3.0GB/8.5ms SCSI-2	959
MICROPOLIS 3243/AV 4.03GB/8.5ms/3.5" SCSI-2	1555/1670
MICROPOLIS 1991/AV 9.0GB/8.5ms/SCSI-2	2739/2829
MICROPOLIS 4221W 2.0GB WIDE SCSI-2	1115
MICROPOLIS 3243W 4.03GB WIDE SCSI-2	1705
Quantum QM30420LP-A 420MB IDE 14ms	**186**
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Quantum QM30730LT-A 730MB IDE 11ms	240
Quantum QM30540LT-S 540MB SCSI-2 11ms	214
Quantum QM30730LT-S 730MB SCSI-3 11ms	262
Quantum Empire 2100S 2.1GB SCSI-3 9.5ms	940
Quantum XP32150S 2.1GB SCSI-2 8ms	1058
Quantum XP34301S 4.28GB SCSI-2 8ms	1649

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FOCUS 2001 101K KEYBOARD WITH DUST COVER	32
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FOCUS 8000 111K KEYBOARD W/CALCULATOR	40
FOCUS 9000 130K PROGRAMMABLE KB W/CALCULATOR	55
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MAG 17" DX17F .26dp 1280x1024 MPR-II monitor	595
MAG 17" MXP17F Flat .26dp 1600x1280 MPR-II monitor	885
MAG 21" MX21F .28dp 1600x1280 MPR-II monitor	1599
ViewSonic 6E 14" .28DP 1024x768 Energy Star Compliant	**245**
ViewSonic 15 15" .28dp 1280x1024,NI 76Hz,Flat,MPR II	395
ViewSonic 15G 15" .28dp SVGA N.I.	355
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ViewSonic 17G 17" Multi-freq 1280x1024 .28dp	695
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EUROPEAN STYLE MEDIUMTOWER W/250WW/3 DIGIT	65
EUROPEAN STYLE FULLTOWER W/250W/3 DIGIT	79
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HP DESKJET 540 PRINTER	282
HP DESKJET 560C COLOR PRINTER	457
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HP DESKJET 1200C PLUS	2043
HP LASERJET 4L/4ML WITH TONER	515*/935
HP LASERJET 4+/4M+ WITH TONER	1365/1845
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HP 4SI LASER PRINTER	2795
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NEC CDR510 INT.3X SPEED SCSI (OEM PKG) W/CABLES	270
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PLEXTOR 4PLEX QUAD SPEED 150MS (BARE)	419
TEAC QUAD SPEED (AT) CD-ROM (BARE)	199
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CREATIVE LAB SOUND BLASTER 16 ASP SCSI-II	205
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CREATIVE LAB SOUND BLASTER 16 MCD (OEM)	77
CREATIVE LAB SOUND BLASTER 16 SCSI(OEM)	110
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OPTI SOUNDS EASY PRO16 16BIT SOUND CARD	75
CREATIVE LAB DIGITAL SCHOOL HOUSE (16 MCD, Double speed CD ROM,Speakers,22 CD titles)	265

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(ARCNET)

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8/16BIT AUTO-SELECT,BNC ONLY,BUS	36
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Boot ROM	Add $11.00
16 BIT ARCNET,BNC+TP FOR TWISTED-PAIR CABLE	46

(HUB)

ARCNET 8 PORTS ACTIVE HUB,BUS/STAR,COAXIAL CABLE	99
ARCNET 8 PORTS ACTIVE HUB, TWISTED PAIR	140
ARCNET 4 PORTS PASSIVE HUB	11
ARCNET 4 PORTS ACTIVE HUB CARD,T.P.	87
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16 PORTS ETHERNET CONCENTRATOR TW	375

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16BIT ENET COMBO(RJ45/BNC)JUMPERLESS	**34**
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32BIT EISA ENET (AUI/BNC/TP) 3-IN-1 COMBO	195
32BIT VLB ENET (AUI/BNC/TP)	195
D-LINK PCI ENET W/BNC,10BT & AUI PORTS1	45
PCI ENET COMBO,JUMPERLESS	105

(ARTISOFT)

ARTISOFT LANTASTIC/AI V 6.0 FOR DOS/WINDOWS	70
ARTISOFT LANTASTIC V6.0 5 USERS	305

(NOVELL)

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MISCELLANEOUS

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EXTERNAL TYPE,SPEC AS 1914BAT BUT UPGRADABLE TO 19.2KPS	145
POCKET 14.4SR FAX V.17/14.4 V.32BIS/V.32/ V.42BIS/MNP5 MODEM	159
28.8 INTERNAL/EXTERNAL FAX MODEM	198/218
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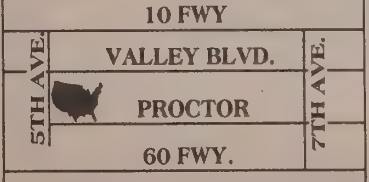

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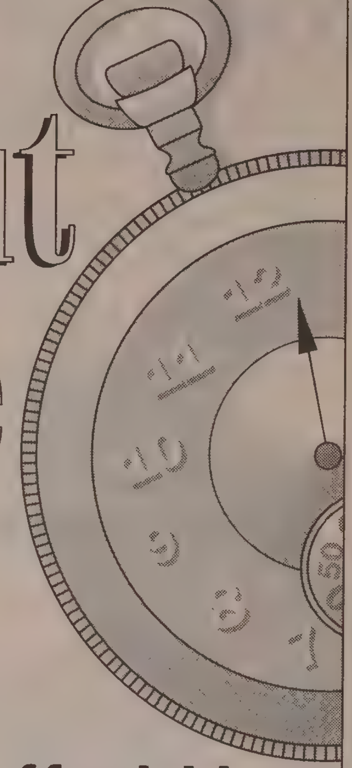

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RSA Data Security Conference *continued...*

I think that Roy Neal, who for a time served in the White House as a deputy chief of staff, said it well: "Our nation cannot be held hostage to inexpert analyses of telecommunications technology in the information age." He went on to say in the context of talking about proposals as recent as those offered in 1994, that "they would try to make Janet Reno, our attorney general, into something which she definitely should not be and was never trained to be, and that is a technology czar."

Spreading The Word

Before I conclude these remarks, let me talk to you briefly about just a couple of other things.

Let me take off my hat as a political analyst of recent events and what I think they portend, and talk about what you individually and as members of the data security industry ought to be doing.

You are among the most knowledgeable people in this esoteric field. There isn't anybody more than the four or five hundred people that are gathered before me in this room this morning who have more depth of knowledge, and who can explain it better. We need voices like yours, people who are knowledgeable, people who believe in the enterprise system, people who are concerned as you see trends emerging that are of little moment to most of your fellow citizens. If they are aware, it is only very dimly and in the vaguest kind of way that they are aware that there may be something in the Digital Telephony system or in the Clipper chip program that would have an impact on their lives.

Many of the concerns that I'm talking about this morning obviously go back to both the First Amendment and the Fourth Amendment, and the Fourteenth Amendment as that applies these amendments to the states. It was a great jurist, Learned Hand, who observed that "the First Amendment presupposes that right conclusions are more likely to be gathered out of a multitude of tongues, than through any kind of authoritative selection. To many this is folly, but we have staked upon it our all." That is the fundamental premise, the keystone in the arch, of our democratic society.

The Camel's Nose

There is a debate that has been ignited over a somewhat different subject, the fact that unsigned messages that circulate through cyberspace on a global computer network can not only provoke great mischief but even far worse results if that network is abused. Well, does that mean, as we search for some means of encouraging greater responsibility on the part of those who log on and use the facilities of that network, that we are going to first drop the First Amendment concerns that we have, as we seek to address problems of the anonymous communicator? I think that that would certainly be trading away a very important and precious right with no real assurance of success.

I wanted to mention one other thing that shows the currency of all this. Just before I came out here, I was given something that came out as recently as December 21, 1994. That's less than three weeks ago. The Bureau of National Affairs published the *Federal Guidelines for Searching and Seizing Computers.*

I'm not trying to be sensational, I'm not trying to be an alarmist, but I would suggest that even though the preface to these guidelines says that "they have no regulatory effect," "they are intended only as assistance rather than authority," "the facts of any particular case may require you to deviate from the methods that we generally recommend"—nevertheless the fact is in every US Attorney's office around the country, they now have a copy of this document, all before Congress has acted.

Since coming to California, I've learned that even though the official records disclose that while in a recent year less than one thousand wiretaps were actually conducted, despite all the case that's been made for expanding that authority, there are many thousands of unreported cases where illegal wiretaps go on.

There are people who even now, before and without guidelines, have been seizing computers. But it seems to me that when you have, at the very highest

continued on page 186

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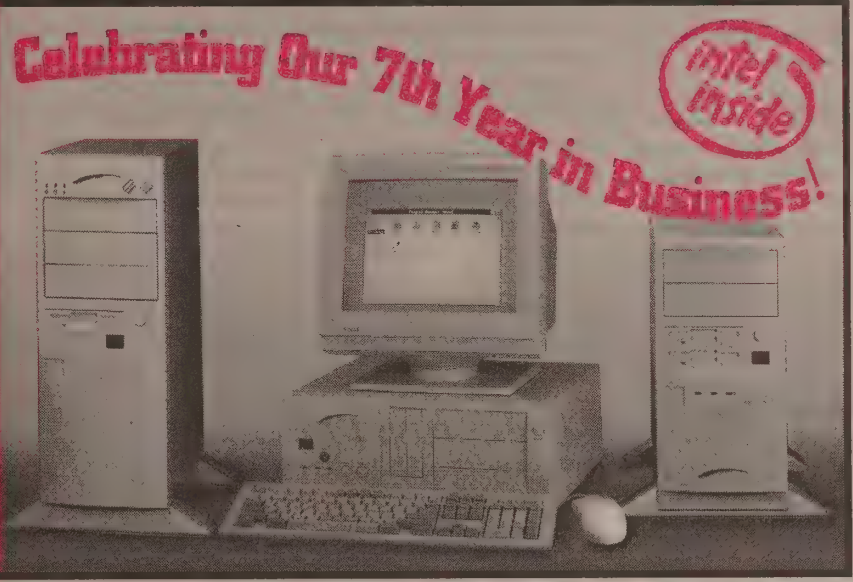

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- 101-key enhanced keyboard
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- Sony 5SE double-speed internal CD-ROM drive
- MS-DOS 6.2X with disks & concise guide

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·N·O·T·E·

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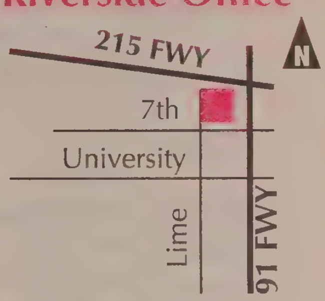

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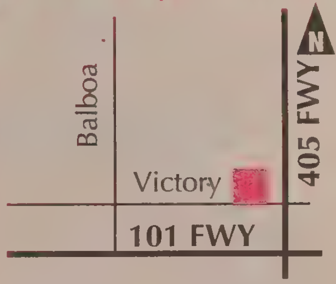

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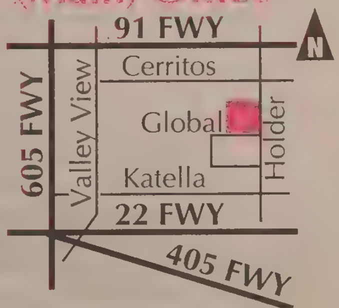

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Letters

Tribute To Kathleen

My condolences on the passing away of Kathleen Creighton.

I loved Ms. Creighton's column. She wrote with clarity, certainly, but also with a sense of caring for the people and processes of the online world. There was a warmth to her writing that stood in contrast to the (often strained) efforts at being "hip" that permeate so much of the writing in current computer-centered publications. I will certainly miss her point of view.

Karen Rust
via Internet

We miss her a lot too... eds.

Boss's Disk Crashes: Employee Saves Day With MicroTimes

I am a member of the CIPCUG in Ventura County. I have joyfully been reading your magazine for many months now, and have to tell you how grateful I am that you are supplying it.

I can even say that my job is secure thanks to you. A while ago, I got my boss on a computer. His is not only computer-illiterate, but technology-illiterate. Anyway, when he started writing and liked it, I thought things were fine, but when his hard drive crashed, I thought I had too.

Fortunately, thanks to one of the Data Recovery services in your magazine, the play was recovered, and his faith in the machines restored. Now if I can only get him to Ctrl S(ave) and not exit. Also to read error messages, and to stop if he doesn't understand them.

You also have raised my awareness of coming trends, and guided our whole company through buying decisions. Thank you.

Michael Shalkey
via Internet

Another Side Of Government Surveillance

Re Jim Warren's column (Issue #132) "Citizen Action Can Control Nation's Wiretap System": Is Jim a little slow? If he thinks electronic eavesdropping is the only violation of our Bill of Rights being routinely committed against us by "our government," he just fell off the turnip truck, on his head.

I hate to break the news to him, but the government, at every level, has been trying to chip away at the Bill of Rights forever. Mr. Warren may be educated about computers, but his grasp of politics and history seems to be a little weak.

Anyone who has lived in this country for the last fifty years, and especially the last thirty, cannot help but have noticed the constant, and now accelerating, erosion of our individual rights. I will list just a few instances.

* The routine confiscation of private property, without compensation, in the name of "the Environment."

* The requirement, by government, that merchants and banks report large cash transactions to the IRS.

* Federal regulation and "licensing" of newspapers, and of the electronic spectrum.

* Any of a thousand gun control or taxation laws, and particularly the new "Assault Weapons" bans.

Jim, and all of you Internet surf cats, should take a look at the Bill of Rights, and at the Declaration of Independence. In those two documents lie the keys to 99% of what governments, all governments, do. Our founding fathers knew about government, and about how it operates, and they tried to warn us about and protect us from the very government they would create, because they knew full well that it is the nature of government, without exception, to become oppressive and destructive to the society off which it feeds, unless actively, and sometimes forcibly, kept in check.

If you do not want an Orwellian society in the future, then you better organize, while you can, and link up with organizations that seek to restore the Bill to full force. And I'm not talking about the ACLU. That distinguished organization was created by the very party that Orwell was trying to warn you about. And remember, when you are dealing with government and politicians, the old saying: Beware of Greeks bearing gifts!

Eric Robinson
Newport Beach

For another perspective on these matters, see the remarks by former Congressman and current law professor John Anderson in this issue.

Real Electronic Democracy?

In talking about Gingrich's Electronic Democracy, Jim Warren asks, "Do they know what they're doing?"

Indeed Gingrich does not. He claimed that his Thomas system is a step toward an "electronic town hall meeting." No, the Thomas information-server has nothing to do with a meeting: it is an emulation of a glassed-in bulletin board.

If he really wants a *meeting*, he would install a conferencing system. If he really wants a *town hall meeting*, he would build a system where each has equal vote *and* equal voice. The embryo of such a system exists: the "go parti" feature at CompuServe. There, voting features are embedded into the discussion. Anyone can poll the rest of the community. Ideas can surface.

Gingrich, Perot, and Clinton's gang *do* know what they're doing. Participation in this technology will eventually, but inevitably, obsolesce politicians. That's why they obfuscate the possibilities.

Those of us who have participated in meetings that are truly democratic deeply resent how politicians have usurped the words "electronic town hall meeting" for their piddly little demeaning systems. The words belong to something else: a perfectly democratic human/computer process that the human race needs to invent democratically while learning to use it.

As things are going, politicians are the ones defining "electronic democracy" simply because politicians have access to the broadcast media. This is a big mistake. The honor and responsibility belongs to the rest of us.

Marilyn Davis
Frontier Systems
Palo Alto

Ms. Davis is the author of eVote, online voting software.—eds.

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STEP TWO: CONFIGURATION REQUESTS:

CPU ○ PENTIUM ○ 486 ○ 386 ○ MAC QUADRA/PERFORMA ○ MACPOWER PC

CPU MHz SPEED:
○ DX4 ○ DX2 ○ DX ○ SX ○ SLC ○ Quadra ○ PowerPC
○ 100 ○ 90 ○ 80 ○ 75 ○ 66 ○ 60 ○ 50 ○ 40 ○ 33 ○ 25

BUS TYPE ○ PCI ○ VLB ○ EISA ○ ISA

CACHE ○ 64K ○ 128K ○ 256K ○ 512K

RAM: ○ 1MB ○ 2MB ○ 4MB ○ 8MB ○ 16MB ○ 32MB ○ 64MB ○ 128MB

HARD DISK DRIVE: ○ 100MB+ ○ 300MB+ ○ 500MB+ ○ 1GB+ ○ 4GB+
○ IDE ○ SCSI ○ 200MB+ ○ 400MB+ ○ 700MB+ ○ 2GB+ ○ 8GB+

MONITOR: ○ SVGA ○ VGA ○ MONO ○ 26 DPI
○ 14" ○ 15" ○ 17" ○ Non Interlace ○ 28 DPI
○ 20" ○ 21" ○ Multisync

FLOPPY DRIVE: ○ 1.44MB and/or ○ 1.2MB

FAX MODEM: ○ Internal ○ External ○ 9600bps ○ 14400bps ○ 28800bps

CASE TYPE: ○ Mid Tower ○ Desktop ○ Full Tower

VIDEO CARD RAM ○ 512KB ○ 1MB ○ 2MB ○ 3MB ○ 4MB

POINTING INPUT DEVICES: ○ Any Mouse ○ MS Mouse ○ Keyboard
○ Serial ○ Bus ○ PS2 ○ Trackball ○ Joystick ○ Ball Point ○ Pen

OPERATING SOFTWARES NEEDED: ○ DOS ○ OS2 ○ Mac ○ UNIX ○ MS Windows

STEP THREE: MULTIMEDIA UPGRADE

○ Please Add To Step 1 & 2 Quotation ○ Please Quote Me Separately

CD ROM DRIVE: ○ Internal ○ IDE ○ SCSI ○ External

SPEED ○ 2X ○ 3X ○ 4X

CD ROM TITLES INCLUDED: ○ 1-5 ○ 5-10 ○ 11+

○ BRAND NAME ○ No Brand Name Preference
CD ROM Brand Name and Model Number

SOUND CARD ○ 16Bit ○ 32Bit

SPEAKERS ○ Less Than 25W ○ 25 to 50W ○ 50 to 75W ○ More Than 75W

STEP FOUR: NOTEBOOK SECTION - Please Note You Must Make Choices In Steps 1 & 2 To Complete Step 4

SCREEN TYPE: ○ Mono ○ Dual Scan Color ○ Active Color

PCMCIA SLOT: ○ Type I ○ Type II ○ Type III ○ Type IV

○ Audio Capable ○ Fax Modem ○ Docking Station ○ Extra Battery

STEP FIVE: NETWORKING NEEDS:

○ Please Contact Me on My Networking Needs Indicated Below
○ Software ○ Hardware ○ Consultation ○ Design ○ Installation ○ Administration ○ MS Workgroups
○ Users 2 to 10 ○ Users 10 to 50 ○ Users Over 50 ○ Lantastic ○ Apple Talk ○ Novell ○ MS NT

STEP SIX: UPGRADES and PERIPHERALS.

○ Ink Jet Printer ○ Tape Backup ○ Accelerator
○ Color Printer ○ Dot Matrix Printer ○ Laser Printer ○ Flat Bed Scanner ○ Digitizer ○ Hand Scanner

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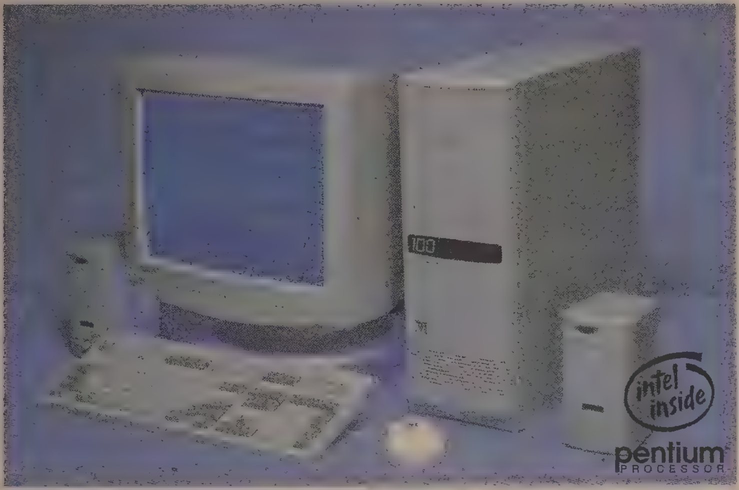

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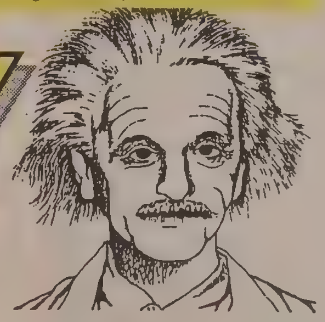

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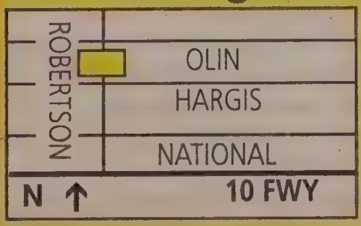

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- * 32-bit graphic accelerator
- * 1 MB video memory
- * Big 25mm trackball
- * 2 NiMH battery w/hot swap
- * Serial, parallel, kb, monitor, and docking station connector
- * AC adapter & carrying bag

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- ☑ 32-bit Enchanced IDE HD controller
- ☑ 32-bit SVGA graphic accelerator w/1 MB
- ☑ **14" SVGA NI green monitor, .28dp**
- ☑ 2 serial, parallel, & game ports
- ☑ Enchanced 101 keyboard
- ☑ Mini tower case w/230W
- ☑ Microsoft compatible mouse

- ● **Sound blaster 16**
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- ● **Sound Blaster 16**
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486DX2-66	$929

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- ☑ 256K cache
- ☑ **4 MB RAM (128MB max.)**
- ☑ TEAC 1.44 MB floppy drive
- ☑ **540 MB hard drive** COOL
- ☑ 32-bit Enchanced IDE HD controller
- ☑ 32-bit SVGA graphic accelerator w/1 MB
- ☑ **14" SVGA NI green monitor, .28dp**
- ☑ 2 serial, parallel, & game ports
- ☑ **Enchanced 101 keyboard**
- ☑ Mini tower case w/230W
- ☑ Microsoft compatible mouse

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Pentium-75	$1599

- ☑ CPU cooling fan w/heatsink
- ☑ 256K cache
- ☑ **8 MB RAM (128MB max.)**
- ☑ TEAC 1.44 MB floppy drive
- ☑ **850 MB hard drive** COOL
- ☑ PCI Enchanced IDE HD controller COOL
- ☑ **ATI Mach 64 or Stealth 64 PCI w/1 MB**
- ☑ **MAG 15" 1280 X 1024 NI monitor, .28dp**
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The World's Smallest Portable Printer?

I confess to being a devoted believer in the Dick Tracy model of miniaturized everything. Computers fulfilled my fantasy by getting so small they could become impractical, but printers lagged behind. On-the-go, I found that while it was very practical to carry a subnotebook computer for almost any kind of journey, I was still left at the mercy of others if I needed to print something. Although it is easy in principle to find a printer, in fact, getting the job done is seldom easy. By the time I would configure the printer drivers or transfer the file, it was easier to wait until I returned home to send a copy. I have long wanted a printer small enough to comfortably carry along all the time for that once in a while job. My dream has been answered with the new Citizen PN60.

The PN60 weighs about a pound and, as they say, it is about the size of a flashlight. But not the shape! It measures 10" x 2" x 1.75". With the NiCd rechargeable battery pack ($79) attached to the bottom of the unit, it gains another .5" in height and jumps up to about a pound and a half in weight. The battery pack takes about six hours to fully recharge, but then it will print about fifty pages. I do not find it necessary to own a battery pack as I seldom need to print in locations where there is no electricity. If you do carry the battery pack, you will probably want to carry the AC adapter since it is used for recharging the battery. The AC unit is compact and slightly larger than a pack of king size cigarettes.

The printer handles any size paper up to 8.5" wide and 14" long as well as paper weights between 16 and 27lbs. This means you can print labels, envelopes, and transparencies. While it is optimized to print in black, color cartridges are available ($13.99/2 pack) and optimized for printing transparencies. With such a small unit, there are bound to be certain compromises. In this case, the tradeoff is that you cannot print a business envelope because it is too wide. You can, however, print a label.

The Citizen PN60 is truly remarkable. Despite its size, it turns out print better than many of the bubble jet printers that I have used. The Citizen employs a thermal transfer ribbon that will print on just about any kind of paper, including textured papers that are not smooth. It boasts a resolution of 360dpi and churns out up to two pages per minute. Not exactly a speed demon, but more than acceptable. After all, this is not designed as a primary printer, but rather something that you can take on the road with you. So many printers that have been designed for this market have required more compromises, especially in quality, so they have not been worth the trouble.

This printer is also designed to work with palmtops! It comes with a cable that plugs into a printer port on the computer and connects to the printer via a special small plug. The printer also works fine with a Mac. If you intend to use this with a Mac, you will need the special Macintosh Connectivity Kit that consists of a different cable and a printer driver. (I was unable to get a price for this as it has not yet been released.)

The PN60 comes with a printer driver that installs into Windows. You can use some of the drivers that come with Windows, but Citizen recommends using their driver to get the maximum out of the printer. Either Epson or IBM drivers seem to work fine, but it is easy enough to install the one Citizen provides.

The printer is simple to use. Just fold down a paper feeder and insert the paper. The printer automatically advances the paper to the correct position—which you can change if you have special needs for where you want the top of the form to be. Four buttons across the top of the printer let you control everything from line advance to paper eject. These same buttons, used in combination, let you manually change the font, paper size, and other variables. You can also print various tests that tell you how the printer is set up, letting you make changes. For normal use, you will never need these control options.

Under most circumstances, you will simply turn on the printer, insert your paper, and give the print command to your computer. If you do have any problems, there is excellent documentation that tells you everything you need to know. In addition, there is a troubleshooting section of the booklet that answers the most common questions. Finally, there is technical support available through either Citizen's bulletin board or over the phone. Technical support is not an 800 number, but I doubt that you will ever need to phone them. Finally, Citizen offers a two-year warranty with the printer. Extended warranty packages are also available.

If you like to travel with your portable, by all means take a look at this amazing printer. It may be just what you have been dreaming of.

RESOURCES:

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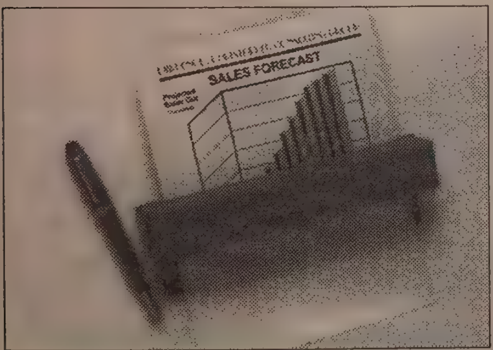

Computer Of The Month

Texas Instruments TravelMate 4000M

RESOURCES:

TravelMate 4000M, $2149–$5299

Texas Instruments, Inc.
P.O. Box 6102, MS 3242
Temple, TX 76503
1-800-TI-TEXAS

Remember the old days when portable computers weighed ten-plus pounds? Those days have been gone for years, but you may just decide to move back into that weight class for your next portable if you are a multimedia user who needs a CD-ROM. Texas Instruments has released a terrific computer that comes in two parts. The basic portable, the 4000M, weighs about 6lbs. and has everything you will need in a portable. More on that later. The second part of the unit is a 5lb. portable docking station that contains a CD-ROM drive, speakers, and its own power supply. The two parts fit together for a combined weight of about 11lbs.—giving you a powerful multimedia machine in a single unit.

The heart of this multimedia system is the TravelMate 4000M portable. It comes in several configurations and can be purchased for as little as $2149 or as high as $5698. The system I tested was powered by a DX4/100MHz processor with 8MB of RAM—expandable up to 20MB—and a 525MB hard drive. Quite a computer. In addition, it has an active matrix color display, measuring 9.5" diagonally and a 16-bit sound board compatible with Sound Blaster and other boards. Of course, there are PCMCIA slots that will hold either one Type III card or one or two Type I or II cards.

The TravelMate 4000M has a well-designed keyboard. One of the things I like best about this keyboard is the built-in pointing device. I have talked about these devices in the past and am convinced that this is the best alternative for a mouse. TI has built in the device just under the keys so it can be used equally well with the right or left thumb. Immediately under the red button that moves the cursor around are two keys that function like the controls on a mouse. It is easy to use and better than any of the alternatives being offered these days. Of course, if you like, you can attach a mouse to the back of the unit. Likewise, a keyboard of your choice connects easily.

While the 4000M comes with an AC adapter that will both power the computer and recharge the nickel metal hydride battery pack, the battery pack provides up to five hours of power. It also incorporates the latest in power efficiency and battery

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Laptops *continued...*

technology. Extra battery packs extend the length of time you can work without access to AC power.

The display is crisp and bright. You can also connect to an external monitor. If you use the external monitor in 640 x 480 resolution, you can operate both the LCD and the monitor simultaneously. If you use just an external monitor, you can switch to a higher resolution. Another design feature allows you to close the cover of the TravelMate 4000M when you are using an external monitor and keyboard. This is great when you are working at your primary location.

> For users who need a **powerful computer** that can **easily accommodate CD-ROMs,** this is **the computer to consider.**

While it comes with Windows for Workgroups, there are also lots of software for multimedia pre-installed. Multimedia is the key to this unit as it is designed to be attached to the portable docking station which contains a double-speed CD-ROM player. Attaching the computer to the docking station is accomplished by sliding the two units together and then connecting them through the SCSI port on the back of the computer. The modules lock together with clasps so there is no chance of the parts accidently coming apart. When the modules are attached, you still have access to the ports on the back of the computer and also have access to a SCSI port in order to attach up to six additional SCSI devices.

The docking station has its own rechargeable battery pack, identical to the one in the 4000M. In addition, it has speakers, volume control, tone control, balance, and ports for both microphone and headset. All together, you have a powerful unit that also can handle MIDI input. The docking station costs an additional $849.

For users who need a powerful portable that can easily accommodate CD-ROMs, this is the computer to consider. It has capabilities far beyond what I have been able to describe in these pages. There is, for instance, the software to play a standard CD-ROM audio disk.

While TI designed a powerful computer, they also had in mind that users would want to use the computer and docking station together. To this end, they offer a variety of carrying cases as options, including one designed to carry the two parts fastened together. ■

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How To Connect A LAN To The Internet: Part 3

A Look At Internet Server Applications, Security, And How To Protect Your LAN

This is the third and final installment in a series on how to connect a local area network to the Internet. In the first article I talked about why more and more companies are setting up shop on the Net and gave you some tips on how to look for an Internet access provider. The next article talked about some of the hardware needed to make the connection to an Internet access provider, and made some suggestions on what client software you might want to use to access the Net. In this column I'm going to talk about Internet server applications that you'll want or need to set up, and I'll talk a little about Internet security, and how to protect your LAN and the information you store on it from attack.

The first server your LAN will need is a "Domain Name Services" (DNS) server, which acts like a name and address book for all the machines on your network. DNS servers let you assign names to the various computers on your network, like "receptionist" and "president," so you don't have to remember a whole bunch of arcane Internet Protocol (IP) addresses like "127.127.127.125" and "127.127.127.124."

There are two ways you can set up a domain name server. If your LAN is small and your Internet access provider is willing, you may be able to get your provider to "register" the names of your computer systems in their DNS server. Otherwise you'll have to set up one of your own. For PCs the DNS server I'm most familiar with is the one in NetManage's Chameleon and ChameleonNFS products (sorry, I don't know of any Shareware DNS servers or a DNS server that will run on a Mac, but the NetManage product does work well for Mac-based LANs as well as PCs).

You'll also probably want to set up a mail server or email gateway, so that you can send and receive email via the Internet, but you'll need to check with your email system software vendor to find out what's available. Different LAN email packages require different software to interface with the Internet.

Once you're connected to the Net, you may want to become a contributor to the wealth of resources available online, by setting up your own servers. There are two popular server types on the Internet: the FTP (File Transfer Protocol) servers, which allow Internet users to down- and upload data and program files across the Internet, and WWW (World Wide Web) servers, which let you "publish" hypertext documents that can, at your discretion, incorporate graphics, sound, and video sequences along with formatted text.

Many companies use FTP and WWW daemons (daemon is the technical term for an Internet server; it's a Greek word for "lesser god") to provide customers, potential customers, and others with product information, technical support information, press releases, and a lot of just plain old fun stuff. Both of the commercial products I've mentioned here (NetManage's Chameleon and Intercon's TCP/Connect II) include FTP servers, and there are several Shareware and free FTP servers available online.

The nice thing about FTP servers is that you don't have to do much to make them useful. You just put the files you want to make available into a directory you've defined as "public," and set up your FTP server so the world at large can access those files. The problem with FTP servers is that using the files once they've been downloaded isn't always easy, and is often beyond the skill level of many less technical users. If you need or want to reach the growing number of less technical Internet users, you'll need to put a little more effort into it.

> **The nice thing about FTP servers** is that you don't have to do much to make them useful.... **The problem** with FTP servers is that using the files once they've been **downloaded** isn't always easy, and is often **beyond the skill level** of many less technical users.

WWW Servers (also called Web or HTTP Servers) let you publish book-like "pages" that incorporate graphics, audio, and video sequences, or even let users fill out questionnaires and search databases on your system. Given all that a WWW server makes possible, it's very easy to install; the hard part is in designing and assembling the Web pages that make it all possible.

The most popular Web servers for Macs and PCs are MacHTTPD and WinHTTPD, both of which are free and can be downloaded off the Internet. To learn more about the hard part, designing Web pages, I recommend you read *Teach Yourself Web Publishing With HTML in a Week*, by Laura Lemay (SAMS Publishing, ISBN 0-672-30667-0), which will also give you some tips on setting a server up.

Now for the bad news. Unless you're careful, putting Internet servers up on your LAN can be hazardous to your network's health. This is because both FTP and Web servers, and sometimes even email programs can be made to allow two-way, unauthorized access to your LAN, and there are people on the Internet with too much spare time on their hands who enjoy finding weaknesses in Internet connected systems and exploiting them. To protect yourself, you need to develop an Internet security strategy, called a firewall, that restricts unauthorized Internet access.

Firewall systems come in many different shapes and sizes, but they all have some common features. First, all passwords have to be changed regularly, using hard to guess passwords that are eight characters (or longer) and mix upper, lower, and punctuation characters and don't resemble any word or combination of words. Password security is the easiest and one of the most important steps in developing a secure LAN.

Next, firewalls permit public Internet access to specific "public" server systems that aren't used for anything else. For most LAN environments that means wiping all traces of your LAN operating systems software off the system and loading only the TCP/IP software needed for Internet access. (This won't prevent your internal users from accessing your public server; they'll just have to log in using an FTP client or Web browser like everyone else.)

Once the public servers have been selected, firewalls use the "filter" features available on most routers to intercept Internet traffic to any other device with a "port number" of 1000 or less. The port number is an extension to the IP address, kind of like an apartment number in a street address, except instead of designating a place where someone lives, it designates a logical connection to a specific applications program. Internet servers usually use IP port numbers of 1000 and less.

Finally, the public server systems are set so that FTP and WWW users can't access the systems and application program directories, and, if FTP uploads are to be allowed, a specific directory inaccessible to the WWW server is assigned to receive uploads.

Designing a firewall is probably the most technical and complicated part of setting up an Internet connection, and the things I mention here are really just a starting point. If you're concerned that your LAN may be at risk, it's probably a good idea to ask your Internet access provider for the names of a few consultants who specialize in setting up Internet firewalls.

That about wraps it up for this series on how to connect a LAN to the Internet. If you do plan on getting your LAN online, good luck! And I'll see you "on the Net." ■

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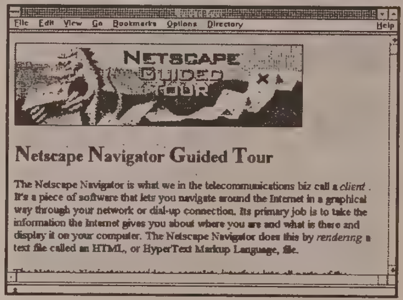

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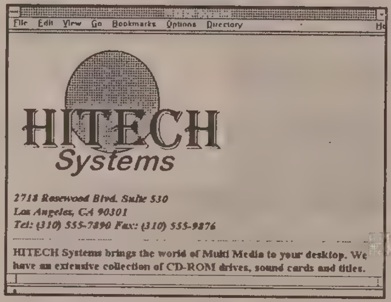

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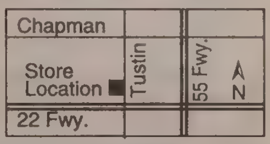

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TELECOMMUTING • BY ROBERT MOSKOWITZ

Telecommuting Is The Thin Edge Of The Wedge

Taking A Step Back To Look At The Larger Issues Of Work And Society, In The Society Of Today And Tomorrow

Although this column habitually focuses much of its attention on specific issues of telecommuting, telework, distance work and learning, and cutting edge technology—along with the projects involved in accomplishing all this—from time to time it's important to take a step back and look at the larger issues.

Despite all the discussion and concern over issues of telecommuting, and in a larger sense "telework," all of these complex and convoluted topics are only one subset of a much broader problem: the role and structure of "work" in today's and tomorrow's society.

The **conventional wisdom** among those who are watching the situation generally centers on **dire predictions** of a two-tier society peopled with information **"haves" and "have-nots,"** the plugged-in **networker/telecommuters,** and the minimum-wage **hamburger flippers.** But this is not inevitable.

Like you, today's social scientists, policymakers, business people, and the public in general are feeling beset by a complex web of social and economic problems. No wonder.

They/we are under pressure from our recurring and unrelenting "unemployment problem," and are feeling uncertain and anxious about the changing structure, demands, and skill-requirements of the jobs that remain available. The truth is, they/we face a challenge no less noble, compelling, and important than the realigning of what we have long called "work" to meet changing realities and human needs.

It doesn't take a genius to recognize marked trends presently impacting the relationship of part-time to full-time work, creating more pressure on employees to meet more stringent requirements from employers, shifting burdens for decision-making either up or down the organizational hierarchy—sometimes simultaneously up and down, remaking that hierarchy in many different ways and adding various forms of flexibility to it, shifting more of the "risk" of under- or unemployment onto employees and "contractors," and otherwise leading to significant departures from the pattern of what now constitutes "work."

Few people, however, recognize that despite everyone's best efforts and different approaches in different nations, the same changes and problems are occurring worldwide, and whatever opportunities may be inherent in these changes are daily being lost or ignored.

Alvin and Heidi Toffler write about two basic camps: one committed to maintaining Second Wave (industrialized) civilization, the other recognizing that today's problems can no longer be solved within this framework. It's a battle of forces for the factory orientation, mass society, centralized power, and vertically integrated organizations against those for the opposite: customized production, individuality, decentralized power, and virtual organizations existing as networks of contacts and contracts.

The conventional wisdom among those who are watching the situation generally centers on dire predictions of a two-tier society peopled with information "haves" and "have-nots," the plugged-in networker/telecommuters, and the minimum-wage hamburger flippers. But this is not inevitable. There are other ways the present scenario can play out. In fact, given our species' track record in predicting the future and particularly in identifying the impact of new technologies on society and economies—electricity, the automobile, air travel, television, computers, and many more—it's a fairly safe bet that the future will turn out to be far different from anything pundits are now predicting.

I was forcefully reminded of all this while in Vienna recently, attending an international meeting on the future of cities and jobs in an era of telecommuting and telework. I was fortunate enough to hear an exciting and interesting talk by an American, Eric Britton, who established a small think tank in Paris back in the '60s, and who has spent the last several decades studying and working to improve the ways in which technological change—which some might call "progress"—influences us in our daily lives.

Based on his own work and observations of technology and telework under a program which his group, EcoPlan, has entitled "Rethinking Work: New Concepts of Work in a Knowledge Society," he spoke to several important points:

1. The Present Crisis of Work Is Profound, Structural, and Threatening to Society

Despite short-term fluctuations in unemployment, GDP, and other measures, the basic problems of work in society have remained essentially unaddressed for years, even decades. Unemployment and inflation rates once considered dangerous and unacceptable have now become the norm. They no longer create a sense of worry among investors or regulators, despite the heavy burdens they deposit on the shoulders of honest, eager, willing families who live at the margins and who therefore suffer

continued on page 67

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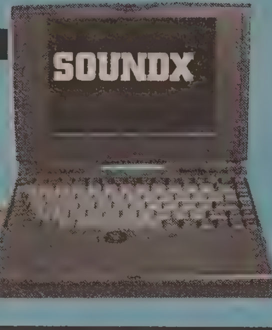

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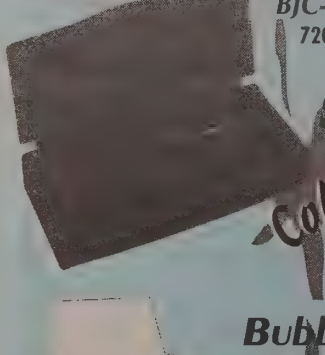

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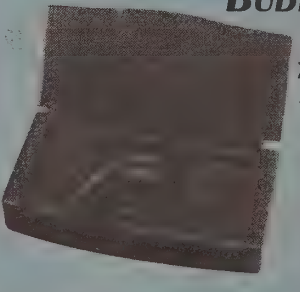

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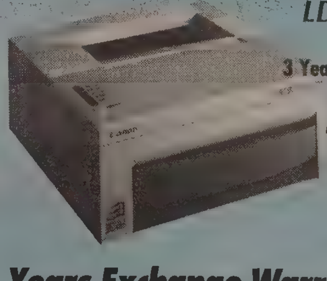

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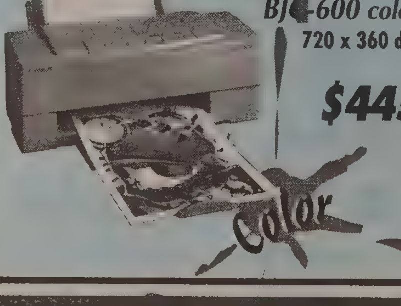

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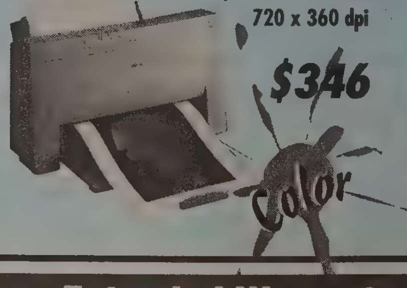

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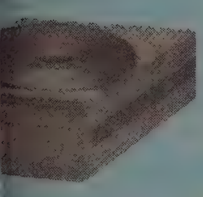

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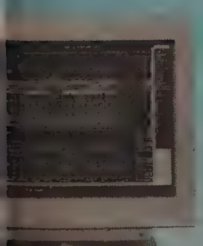

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- VESA Local Bus SVGA Card w/1MB
- Tatung 15" SVGA NI LR Monitor w/Speakers
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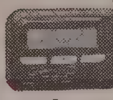

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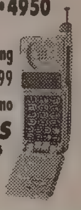

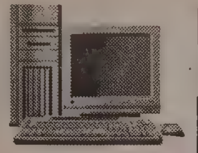

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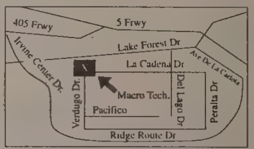

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Telecommuting

continued from page 62

dreadfully from every decrement in these measures of economic performance.

2. We Have a Grossly Inadequate Understanding of What Work Is All About

In our society work is a great deal more than just "labor." In addition to its productive and economic aspects, work is also the main vehicle by which people obtain the goods and services they want and need in their daily lives. When people fall out of work, they lose income, and thus reduce overall demand for the fruits of other people's labor.

And work has many other important psychological and social functions, none of which are getting sufficient play in the present debate.

3. We Are Looking at the Wrong Indicators

We need to put the days of single indicators (and single factor causality) firmly behind us. In examining the issue of modern "work" in society we are consistently looking at the wrong things—and often measuring them incorrectly, to boot. For example, many economists argue that the real dimensions of unemployment are in most places at least 50% more than the number officially admitted or discussed.

More to the point, no one can yet make an accurate, reliable count of the number of people whose success at work depends in whole or in part on effective use of information and telecommunications technologies: teleworkers, home-based consultants, virtual corporation employees, and many more.

We badly need progress in developing new indicators that can permit us to understand work, under- and unemployment, and their related social and economic phenomena in all their human and natural complexity.

4. The Time Scale of the Analyses Is All Wrong

The problems presently associated with "work" in society are no longer cyclical or short term, but structural and long term. We cannot afford simply to wait for the next upturn in the economic cycle because it won't do anything important to relieve our underlying problems. Economic pressures are rapidly pushing more enterprises into trying new forms of work, telework, and organization. Our frame of reference can no longer be the blips of the latest economic performance data, but the realms of Adam Smith, Marx, Kondratiev, Keynes, and Schumpeter.

5. We Have a Major "Tools Problem"

We are grappling with our problems using analytic tools that were by and large fashioned when economics was defined as "the study of the allocation of scarce resources." But today, a great many resources—including labor, information, and management skills—are available in great abundance! Doesn't it follow that we need entirely different analytic tools?

We need tools to help us understand the various roles of work in society, and the relationships between work, income, and economic activity, so we can better accomplish the adjustment of tomorrow's work—which will almost certainly include millions of telecommuters—to meet the new and rapidly changing needs of tomorrow's societies.

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6. The Paradox of Progress

Unfortunately, the circumstances before us are neither temporary nor the result of some hapless accident; they are the direct outcome of the social and economic systems we have set in place.

> **Economic pressures** are rapidly pushing more enterprises into **trying new forms** of work, telework, and organization.

For example, we have deliberately created a "labor-saving" society—and now see increasing numbers of people "out of work." We have converted virtually every aspect of life and work to some form of information, and are now drowning in a sea of databases and data flows. With more and more of the "workforce" becoming telecommuters and teleworkers, why feign surprise that these people make new and different demands on society and the economy?

Since we need only a small fraction of the labor force we historically employed, we must learn how to reorganize the economy, our society—and our daily lives—to maintain the value of human life and action, and to maximize the contributions possible by those of us now "out of work."

7. Many Currently Proposed Measures May Make Things Even Worse

Many of the so-called "remedies" presently being discussed or implemented run the risk of locking in parts of the problem, or worse, creating situations substantially worse than what would result from no policy at all. For example, there are proposals to put limits on part-time work, to eliminate minimum wage laws, and to further outlaw or inhibit useful activities already forced into the black and gray markets.

8. Radical Rethinking Is Called For

A critical read of the evidence makes it clear that the entire "work system" we presently inhabit (in our daily lives, to be sure, but even more important, in our minds) is no longer doing its job. Something is already quite wrong, and is only going to get a lot "wronger" in the years ahead. The present system of full-time or even part-time jobs for a paternalistic "employer" who commands our time and energies is a leftover from another time and an entirely different set of circumstances. Even telecommuting, which remedies some problems of the existing models of work, is only a halfway step toward what the American Compensation Association is not alone in predicting: a fundamental shift in the basic unit of work from a relatively static "job" to a "role" that constantly changes in a sea of fluctuating teams, assignments, projects, and individualized responsibilities.

9. The "Problem" Holds the Solution

The same forces now at the heart of our problem—most notably information technologies—are at the same time an absolutely vital element of the solution, bringing us the potential to do work at a distance, to create ad hoc work teams, and even to mix

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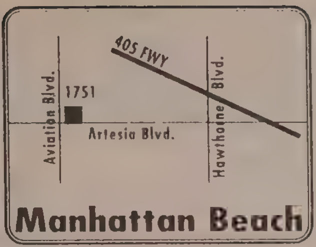

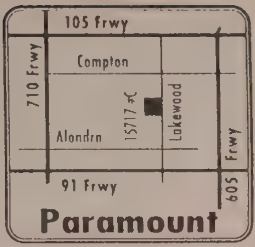

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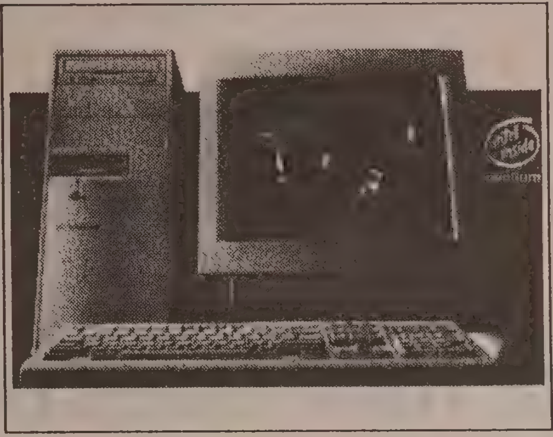

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work and play in entirely new recipes.

For example, while telework technologies and practices might in certain specific instances reduce jobs, properly supported (through revisions in the law, business practices, and so forth) the move to telework can easily extend the possibility of work to more people and wider geographic areas than ever. This point, which is not being adequately brought into the debate, needs to be broadcast.

Here's a case in point. The Learning Network began in 1993, based at South Bristol College, in Canada, with a group of fifty-seven unemployed persons. It offered an environment where they could learn about telecommunications and other aspects of the information superhighway. Today, all but a handful of them are employed.

10. The Changing Shape of Work

Think of the transition from "old work" to "new work" as a migration, with an entire population trooping from an exhausted countryside to new and fertile valleys. Hardly anyone, of course, wants to move. But here we all are, pulling up stakes and staking out new claims. If we don't, we will surely be left behind by those who do.

The Transition To Telework

In the old days we talked about jobs, places where we went to work, the daily trip to those places, our schedules, the one employer who paid us, and the like. But increasingly in 1995 these are but memories of the "old country." Each year we are going to see growing numbers of people migrating to new forms of work—oriented not to jobs but to careers, not to single employers but to multiple skills, not to employed subservience but to networks of peers, associates, and clients.

The United States, and particularly California, is usually on the leading edge of social and economic change. It's true again with the changing shape of work in society.

Clearly, the transition to telework is going to take place with or without the benefit of an overall guiding policy. But if key players and early adapters form and hold a vision of what can happen, how society can adapt, and where technology should lead us, the net effect of these changes and opportunities may be far more positive than anyone anticipates.

[For a more detailed treatise on this and related topics, contact: EcoPlan International, Centre for Technology & Systems Studies, 10 Rue Joseph Bara, 75006 Paris, France; tel. (331)4326.1323; fax 4326.0746; email *100336.2154@compuserve.com*.]

Continued From Last Time...More On Telecommunities

The Institute for the Study of Distributed Work, Oakland, CA, is continuing to study how technology diffusion might impact quality of life for large numbers of people. As I mentioned in my most recent article, the Institute is actively looking at some thirty separate community development efforts in the United States and abroad.

continued on page 74

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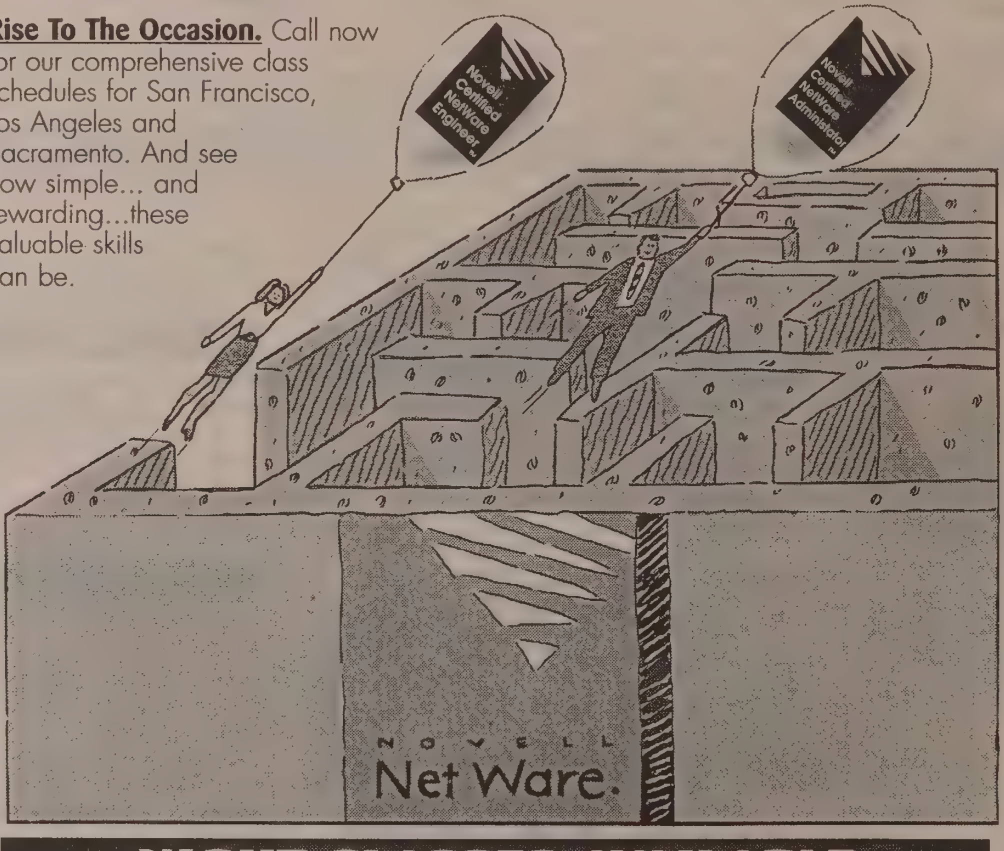
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Telecommuting

continued from page 70

For example, "telecommunity" development efforts are presently going on in Florida, Nebraska, Iowa, Kentucky, Montana, Washington, Oregon, California, Colorado, New Mexico, and Virginia. Most of these are very small in scope with little or no funding.

The most visible and longest-lasting program is in Telluride, Colorado. It centers around the creation of an "Infozone," so far a successful effort to provide citizens open access to the Internet and online libraries. Supported through local contributions, the "Infozone" is developing as a nonprofit community service.

Taos, New Mexico, is another town trying to grow a grassroots multicultural community development project. Called La Plaza TeleCommunity, it's intended to provide access to the Internet by linking home computers and public access terminals to educational facilities, libraries, government offices, health care providers, and business sites. A central facility would serve as an information resource designed by residents to meet their unique needs. La Plaza has received donations from Apple Computer, as well as national, local, and state agencies.

Canby, Oregon, is fairly unique in that it owns and operates its own telephone, cable TV, and electric utilities. With a completely connected infrastructure in place, the residents are now trying to decide what kind of linkage they want with the larger world. The whole process began in response to a comprehensive urban development plan. One emphasis here is to increase the town's business viability without sacrificing its uniqueness and small-town identity. So far, the entire project has been funded internally.

Dr. Grantham is unwilling to offer any conclusions on the viability, strengths, or weaknesses of these and other telecommunities until more of his research is completed. At present, he is actively researching at least three topic areas:

Economic Issues: How does this diffusion of communication technology allow people to add value to economic transactions? What value gets added? Does the network really create a powerful new distribution channel for knowledge-based products and services, or will interest in its usefulness fade as its novelty wears off?

Social Issues: Do telecommunication networks foster the expansion and increased density of social networks? How does electronic interaction among people affect their sense of identity at individual and group levels?

Political Issues: Do these networks give more people easier access to participation in the political process? Is this impact limited to local levels or can it be extended to larger spheres of influence?

Obviously, there is a great deal more to be learned—and to be said—on the matter of telecommunities. Anyone interested in obtaining more specifics from Dr. Grantham, or sharing information, experiences, or concerns about telecommunities, can email him directly at *ISDW@aol.com* . ■

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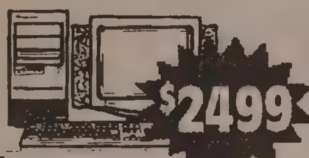

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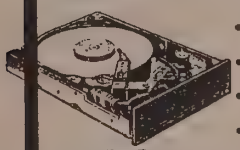

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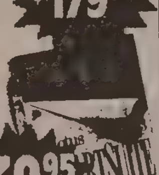

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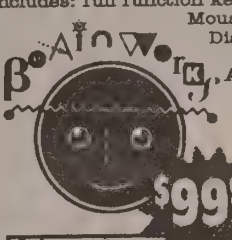

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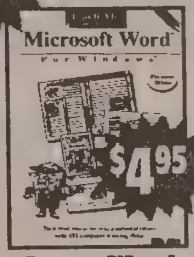

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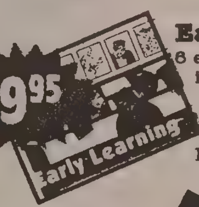

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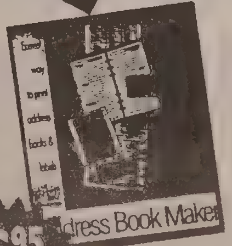

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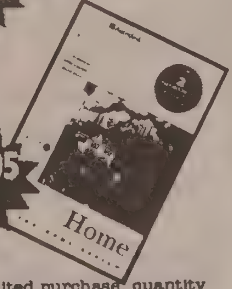

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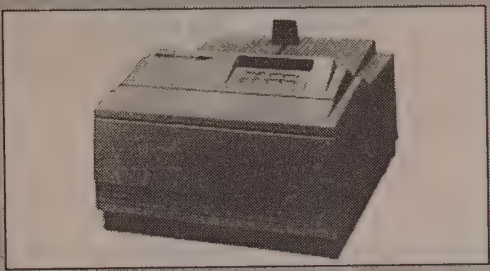

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About Integrated Programs, And Claris Works In Particular

All-In-One Software Offers Value To The Small/Home Office

I have always been a fan of integrated programs. A fan, yes—but up to now an ambivalent fan.

"Integrated Programs" offer a variety of applications in one package. Typically they include a word processor, a spreadsheet, a database, a communications program, and perhaps more. They usually make it easy to exchange information among the modules.

I am a fan because I expect that integrated programs will allow me to exchange and combine information among the component applications in painless and creative ways. That is, after all, the great advantage of computers. You get rapid access to different kinds of information, rapid changes and transformation of it, and rapid and varied output. When it works, you can mix information from databases, spreadsheets, and word-processing documents with incoming online data. This is the dream.

The disappointment is that the applications included in integrated programs are never quite as powerful as standalone applications. A really good freestanding word processor is always better than the one included in anybody's "works."

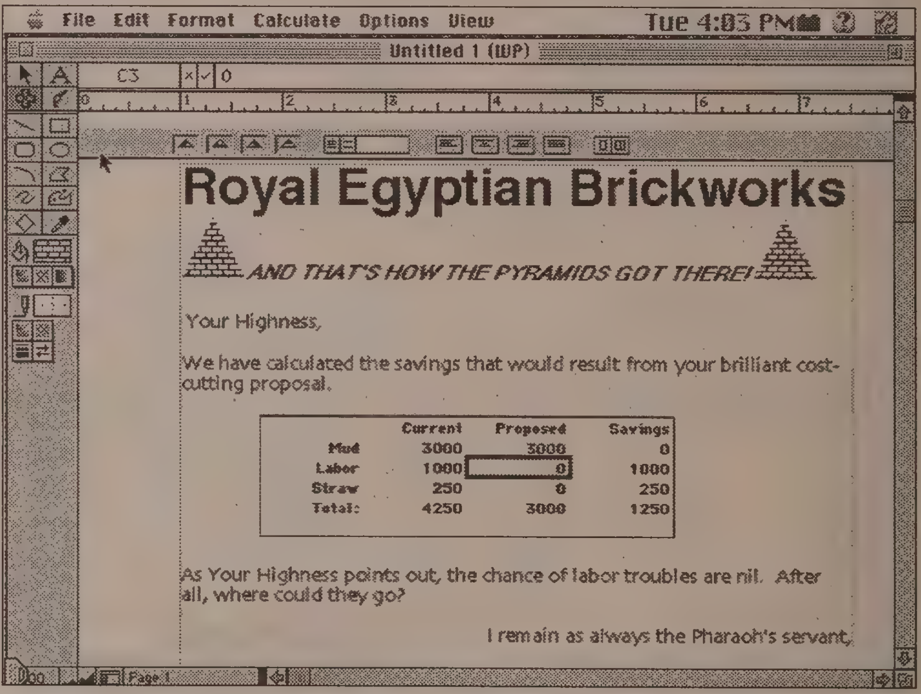
What we always get is a family of compromises. The decision to use an integrated program has always been a balancing of good features against disappointments.

There *are* three niches into which integrated programs fit well: the beginner's computer, the office on a shoestring, and the overloaded laptop.

Good Fits For Integrated Packages

If you have just bought your first computer, you find that now you have to buy some software to go with it. "Well," says the smiling salesface, "you'll need a word processor. And a spreadsheet to do your accounting. And of course a program for the modem. And you said you are an artist? Then a graphics program... "

There go the savings. You do want to try out all these possibilities, of course. You just don't want to spend a fortune on a spreadsheet until you know you will use one. The Catch-22 is that you won't know if you will use one until you have one. An integrated program provides all these facilities in one cheap package.



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I remain as always the Pharaoh's servant,

Document created in word processing module of Claris Works

A second environment for integrated programs is the company on a shoestring budget. There is no money for multiple copies of standard programs. As integrated programs provide multiple applications for the price of one, small companies can build the whole business around a single package.

Finally, an integrated application may be the ideal "other application" for a laptop. These mobile computers are often loaded with some mammoth application demanded by your work. If you are a software author, you may have a programming language and an immense embryo project in the machine. If you are an architect or a designer, you may have CAD programs aboard. If you do multimedia, your laptop may have a huge authoring tool stuffed into its hard disk. These large applications often have large documents as well. Memory is at a premium.

Integrated programs were originally designed for the small-memory machines of the past, and they continue to be compact. In such a crowded context, a small program which does a lot can be a godsend.

Take Claris Works For Example...

Claris, which has been in and out of the Apple corporate family, began as a software developer for the Macintosh only. Lately the people at Claris have been producing programs for Windows as well. Claris Works has versions for both platforms.

Claris Works offers quite a suite of applications: a word processor, a spreadsheet, a flat-file database, and two graphics programs. One of these is a vector-based "draw" program; the second is a

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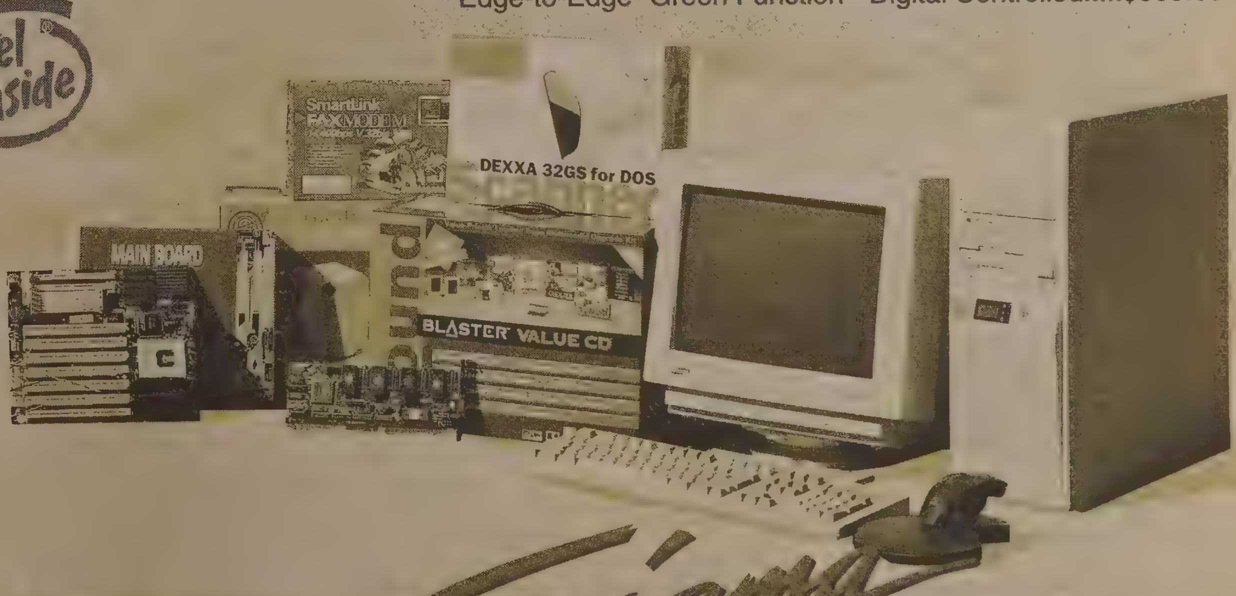

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bit-mapped "paint" program. The Macintosh version (which I examined) also has a macro recorder and a communications module. The simple terminal emulator and the macro recorder in Claris Works for the Macintosh are not unlike those provided with Windows, so Claris has omitted them in the Windows version. Both versions have a slide-show creation and display facility, with the ability to play video.

I found the text processor to be straightforward and usable. It has an integrated outliner, which allows you to organize your thoughts before you begin. It can insert headers, footers, footnotes, live dates, and times. It has rudimentary style sheets. Particularly useful are the stationeries, which are templates you can build for repeated use. There are also the usual tools that one finds in a word processor—a hyphenator, a thesaurus, and a spell checker. I found that most of what I need for an active writing life is provided in this text processor.

In a word processing document you make columns and tables of various sorts. You can do it with tabs, as we have all done in the past. You can also insert a spreadsheet frame into the document, using the excellent embedding facilities.

The most elegant solution is the use of text frames. Claris has added frames to the word processing system—in fact, you can insert text frames into many kinds of documents (spreadsheet, database, draw, or paint) as well as word processing—and you can link text frames to produce flow-through text.

Claris has included a number of automated "assistants" to help you format commonly used documents in the various modules. The Newsletter Assistant helped me create a four page newsletter blank in less then two minutes. It asked me a number of questions—did I want a business, a "New Age," or a "Post Modern" style?—and created a template for me. The embedding facility allows you to include bitmapped (paint) or vector (draw) graphics into the text page.

Works also allows you to insert a graphic, and to have the text reshape itself to flow around the graphics frame. These are the sorts of tools that used to differentiate page-layout software. One could easily use this Claris family of tools to produce newsletters and even small books.

Counting Your Pennies

The name and format of "spreadsheets" are derived from accountants' books of rows and columns. Spreadsheets have mathematical formulas built in. You can add, subtract, or calculate in any way with the numbers you enter. I have thought many times that children who see no point to arithmetic might get it if they played with a good spreadsheet.

The Claris Works spreadsheet is designed for simple work. For the ordinary small business, the spreadsheet is more than adequate. The worksheet information can be presented alone, or you can com-

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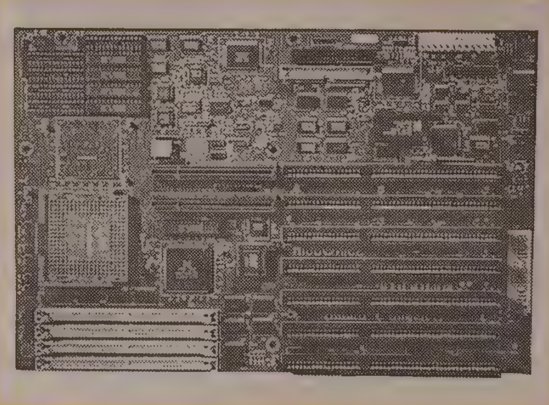

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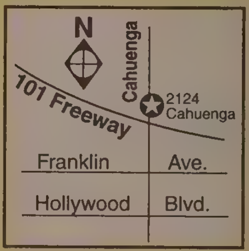

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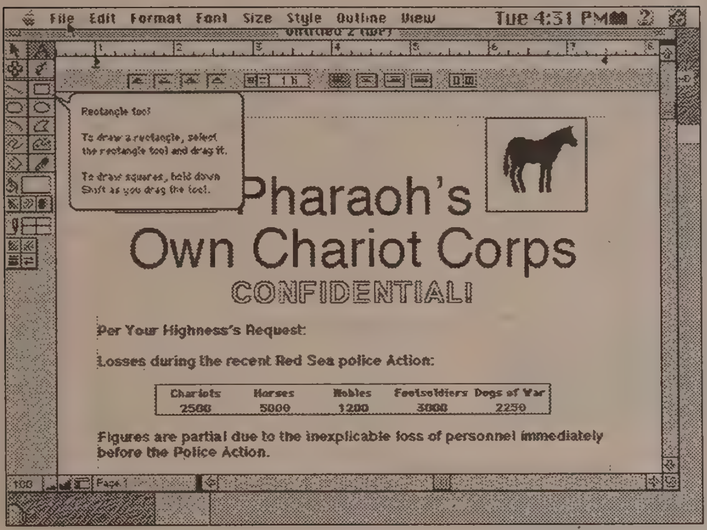

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ClarisWorks' online help

bine it with material from the other Claris Works applications to make a compound document.

I found I could embed a live spreadsheet in a text document, with charts that would change with changing data. The chart that is driven by the spreadsheet need not be at the same spot in the compound document as the spreadsheet. As long as the chart is moved (rather than cut and pasted), the link between the spreadsheet and the chart is maintained. If the spreadsheet data changes, the chart will reflect the new information.

Spreadsheets are often austere documents. The graphic tools to adorn the bare figures take up a great deal of space in any standalone package. Because Claris Works provides a full set of graphic tools, you can build a graphic display from them rather than needing separate spreadsheet graphics. This sharing of tools is one of the features that allows Claris Works to remain relatively small. Instead of requiring separate draw tools for the spreadsheet, the word processor, the database, and the bitmapped paint program, the integrated application provides one such set of tools to be used by all the applications.

Show Me Your Data

While some situations need complex relational databases, there are many more uses that require only a flat file and some reporting capabilities. It is my impression that works programs get used more for their simple, flat-file databases than for all their other features.

I spent a few minutes this morning using the Claris Works database to design a complete sales tracker for a small business. It was simple even for a beginner, because the program assumes that the user would welcome a little help, and offers it. I suppose that one could get tired of the many dialog boxes. I found that they saved time for me as an occasional user.

Claris seems to have learned a lot from several generations of FileMaker Pro, its standalone database. The interface is a simpler version of the one in the standalone program. The utilities are also similar. Alas, the database files are not FileMaker files.

Layouts are used to design the screens on which the Works database receives and displays information, and to format the reports it provides. It was possible to change screen and report designs, and to copy them to make incremental modifications, without sacrificing the original layouts.

It is easy to modify a database even after it has been put into

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use. I found that I had made some dumb mathematical errors in building my original sales tracker. I was able to go back in and modify the formulas in my calculated fields without losing the data that had been entered into the entry fields.

The database thus facilitates the way many of us work. It encourages us to make a rough draft of a data plan, and then to try it out. The trial reveals what succeeds and what doesn't, and we go back to make modifications. Claris Works supports this style by allowing changes in databases and layouts that are already in use. It also warns you whenever you are about to destroy entered information.

Communications

I get irrational about bad communications. Therefore—because I am dependent on a terminal program to get me in touch with someone—I often find myself shouting at some communication product. I am pleased to say that the terminal program in Claris Works functioned correctly the first time I tried it.

It is not fancy, and it lacks some common buttons and bows. One always wishes for a script function to handle logons, and this communications module does not have one beyond the macro program that comes with Works. I guess this is the point where we have to say, "You can't have everything in one program." It does offer Claris Kermit and XMODEM transfer tools.

Bells, Whistles, And Slide Shows

Word processing, drawing, painting, spreadsheets, communications, and databases are not all that Claris packed into Works. They added a simple macro recorder to the Macintosh version that allows you to assign repeated keystrokes to a menu or a button. A macro can be a simple time-saver that automates the typing of a name and address, or a complex arrangement that moves data from one document to another and may even send email without further supervision.

Macros in Claris Works do not branch or make decisions. Even with this limitation, a macro recorder greatly simplifies repetitive work in any office.

Claris has provided a simple slide show function. You can design documents in the word processing, draw, paint, database, or spreadsheet applications; then you can cut or dissolve between them in a prerecorded slide show. This means that traveling sales

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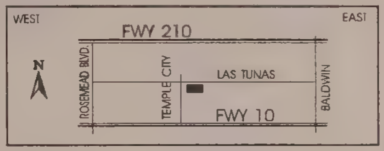

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An End To Disappointment?

I make a serious effort to find the faults in an application, so the reader won't have to. But I found little to complain about in Claris Works. Its idea of exported text files was odd. It used some characters with ASCII numbers higher than 127, and the carriage returns were not accompanied by line feeds. It is the old translation problem, which has kept columnists and programmers employed since WordStar days.

I called the support line (which is free, though not toll-free, for ninety days), and found the help technician courteous and knowledgeable. He guided me through increased memory allocation without even insisting I should have read the manual, and answered several other questions with aplomb. He too was stumped by the translation problem.

This is a superb product. Beyond the components—which work well—here is a smooth integration among them that makes this application a pleasure to use. The frames allow the modules truly to share their strengths, without complex gimmicks.

The whole program functions as if it had been created by a user. I commend Claris for the thoughtfulness they put into this program.

The prices are very kind. Claris Works is available for the Macintosh ($129 list price) and for Windows ($99 list price). You can buy them direct by calling 1-800-544-8554. Software stores and mail order houses may have them for even less.

What's Ahead...

This column is for the readers. If you have a story about the joys and horrors peculiar to the small or home office, send me email at *birrell@well.com* . In a few months we'll bring the results to everyone.

What happens when you try to make many different products work together? Next month we will look at a demonic side of combining programs: nobody's support department wants to take responsibility for the problems. It's the sort of story Stephen King ought to tell, but I will do my best. ■

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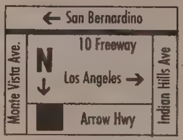

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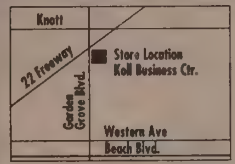

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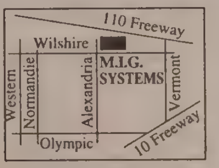

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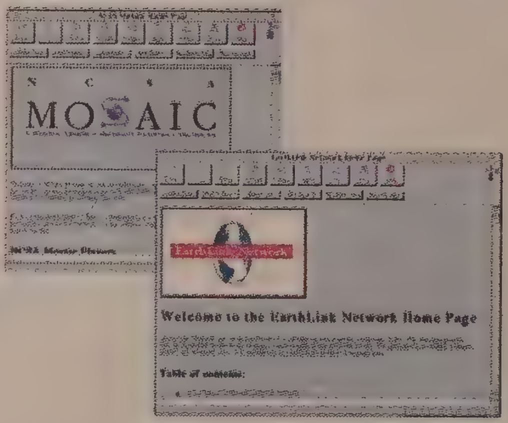

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INTERNET • BY JOHN S. QUARTERMAN SMOOT CARL-MITCHELL

Is The Internet Mostly Big Companies?

We've heard many people speculate about the size of the Internet like this: "My company has thousands of hosts on the Internet, and I know about three others that also have thousands of hosts, so the whole Internet must be huge!"

The problem with this kind of speculation is that it assumes that all organizations on the Internet have large numbers of hosts, like those few examples.

We prefer to get real data than to speculate. Readers of this column know about the Second TIC/MIDS Internet Demographic Survey of October 1994, in which we sent survey questionnaires to an effective universe of 13,302 organizations on the Internet (companies, universities, government agencies, individuals, etc.) and got 1,468 usable responses back. In a previous column we've looked at our estimates of the total size of the Consumer Internet and of the Core Internet.
Here are those estimates, once again:

* For the Core Internet, we estimate 7.8 million users (people) of 2.5 million computers that can *provide* interactive services such as TELNET (remote login), FTP (file transfer) or WWW (hypertext), as of October 1994.

*For the Consumer Internet, we estimate 13.5 million users of 3.5 million computers that can *use* the interactive services supplied by the core Internet, for example, people who can use Mosaic or Lynx to browse the World Wide Web, as of October 1994.

This time let's look at the size distribution of the Consumer Internet. We'll look at the raw survey data, i.e., excluding AOL, BIX, and Delphi, which are the few large centralized conferencing systems that we included in the total Consumer Internet estimate (we didn't include CompuServe or Prodigy or any of the other large centralized systems in either of the above estimates).

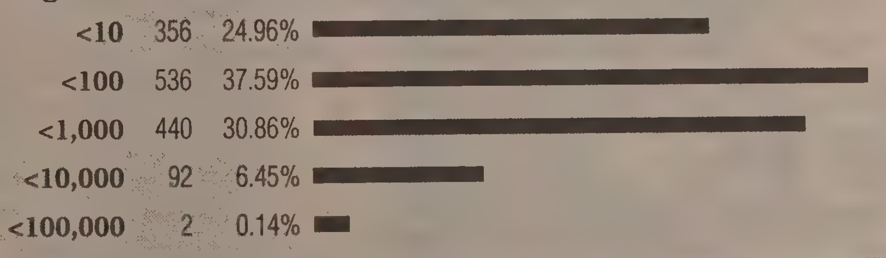
In other words, do all the organizations on the Internet have many hosts?

Smaller Numbers

The average number of hosts per organization as shown by the survey is 279, not thousands. That's not even the whole story, because the median is much lower: 40. This means that a few big organizations have many more hosts than the mean, but a typical organization has many fewer than the mean. Plus there are far more typical small organizations than there are big ones. And in fact, the most commonly reported number of hosts per organization is 1 (one).

Looking at these results another way, by lumping together the results in intervals of 1-10 hosts, 10-100 hosts, 100-1000 hosts, etc., we find the proportions in **Figure 1:**

Figure 1: Hosts per Organization, TIC/MIDS Survey, October 1994



A quarter of all the organizations answering the survey have less than 10 hosts, more than a third have 10 to 100 hosts, and thus well over half of all organizations reporting have less than 100 hosts. Less than seven percent had 1,000 or more hosts.

So, the simple answer to the question, "Do all the organizations on the Internet have many hosts?" is: No.

Commercial Vs. Educational Sites

Well, maybe this is because of all the educational organizations in there diluting the numbers, or maybe it's personal domains, or something. Let's look at organizations in the COM and EDU domains separately. Those two domains are primarily in the United States, so we don't get a worldwide sample that way, but we are pretty sure that organizations in them are commercial and educational, respectively.

Table 1 shows important measures of the whole set of responses, and the COM and EDU responses. The mean and median for COM are smaller than for all the responses; the mode (the most commonly reported number of hosts) is the same. But the mean, median, and mode for EDU are all larger. The average EDU organization would appear to be 3 times larger than the overall average, and 8 times larger than the COM average. This isn't surprising: universities tend to have many students, some universities are very large, and large universities are more likely to be thoroughly connected to the Internet than are large companies.

Table 1: Second TIC/MIDS Internet Demographic Survey, October 1994

	estimate	ave	rms	median	mode
all	3,609,943	279	862	40	1
com	338,140	104	435	15	1
edu	997,785	867	1891	200	300

The rms column in the table is the root mean square, or standard deviation, for our statistical readers.

Well, maybe these numbers are just artifacts of the survey; maybe there really are lots of big companies on the Internet, but they just didn't answer the survey!

Network Wizards Survey

Let's look at a different source of information for approximately the same time. Mark Lottor and Network Wizards survey DNS domains with IP addresses approximately every three months by using the Internet itself to ask Domain Name Servers for information. This is quite a different technique of surveying, so it should be relatively independent.

Table 2 summarizes the Network Wizards survey. To make the comparison as direct as possible, we have sifted out the same kinds of domains we omitted from the TIC/MIDS survey, that is, everything under MIL, GW.AU, and a few other peculiar domains.

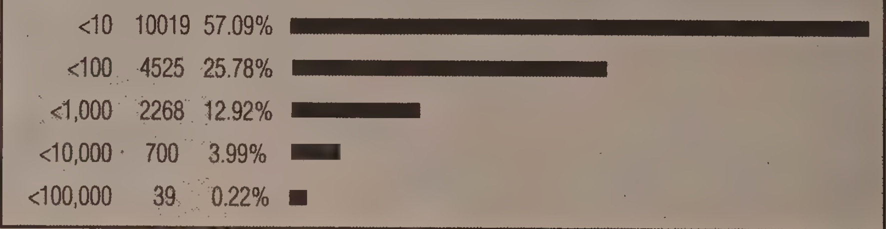
Comparing Table 2 to Table 1, we find some interesting points of agreement. The total host estimates are so similar as to be astonishing. The EDU host estimates are also very similar.

Interestingly enough, the means overall and for EDU are actually lower in the NW survey, which means that Network Wizards finds more small organizations than reported in the TIC/MIDS survey. This fits with the overall distribution shown in Figure 2. NW must have found a few very large educational organizations, though, to get that huge median, and in fact they did find exactly one that was larger than any that responded to the TIC/MIDS survey. (We can't tell you which organization, since we promised anonymity.)

Table 2: Network Wizards Internet Domain Survey, October 1994

	estimate	ave	rms	median	mode
all	3,608,324	206	1350	34	1
com	868,296	132	1581	1	1
edu	987,476	737	2360	10464	1

Figure 2: Hosts per Organization, Network Wizards Survey, October 1994



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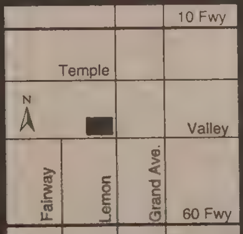

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Conversely, the COM part of the NW survey is larger, and the average is higher. This means that NW found more large organizations in COM than reported in the TIC/MIDS survey, and looking at the data, that is in fact the case.

Nonetheless, of the three categories shown in the tables (all, COM, and EDU), the means differ the least for COM between the NW and TIC/MIDS surveys, and the NW median is actually smaller. In other words, the NW survey also found a large number of smaller organizations.

Where did all these organizations in the NW survey come from? Well, several of the largest ones only registered domains shortly before October 1994, and thus were not included in the TIC/MIDS survey list. The others simply didn't respond.

What Does This Mean?

We could go farther in this examination (and we will, elsewhere) and note that the TIC/MIDS survey showed far more pingable hosts on the Core Internet than the NW survey, which would lead to the interesting question of how many of the domains with IP addresses reported in the general NW survey are actually in use. This is especially interesting to examine considering that the TIC/MIDS survey appears to have seen through firewalls in many cases, to hosts reported as being able to connect out that are not visible from the outside at all.

> In general, *the larger* the commercial organization, *the fewer* users per host. In other words, people in large organizations are more likely to have PCs or workstations than to use timesharing systems.

To put it another way, just because the two surveys differ in their host estimates for COM organizations doesn't mean that the one that produced the larger estimate is necessarily more accurate. But let's leave that for another month.

The point remains that even using data from either of the two surveys we've examined in this column, the number of hosts per organization on the Internet is hundreds, not thousands, and for COM the average is little over 100. So a few large commercial organizations can affect the host counts, but there aren't enough such organizations to produce a large perturbation in the total host counts.

How does all this affect estimates for the number of users on the Internet? Well, that's another story. The NW numbers will be of no direct use in answering that question, since Network Wizards prudently does not attempt to estimate users. We can say from examination of the TIC/MIDS data, however, that in general, the larger the commercial organization, the fewer users per host. In other words, people in large organizations are more likely to have PCs or workstations than to use timesharing systems. Some very large organizations even have more than one host per person.

So the organizations with the most hosts will affect total user estimates less than medium sized organizations. But let's leave user estimates to another month.■

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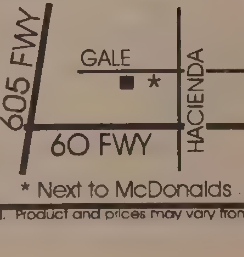

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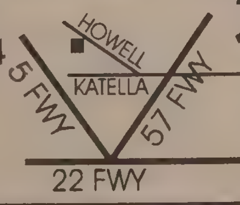

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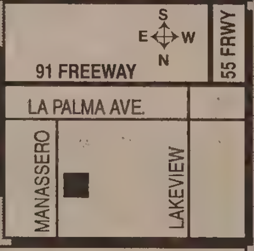

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INTERNOTES

http://www.tbo.com/notes.html [Exp. #138.]

JAPANESE UNDERGROUND TECHNOLOGY

ftp://ftp.netcom.com/pub/ge/geoi310/homepage/a6.html [Exp. #139.]

JOHN PERRY'S HOME PAGE

http://www.perry.com/ I'm B1FF!!! (a film festival), The Liberal Materialists (my band), photos, poetry, and much more. [Exp. #139.]

JOW'S TRUESPACE HOME PAGE

http://csual.cs.ucla.edu/truespace Provides images, utilities, and links of interest to the Caligari trueSpace user. [Exp. #140.]

THE LIBERTARIAN PARTY, AMERICA'S THIRD PARTY

http://www.lp.org/lp/ [Exp. #138.]

LINKS FROM THE UNDERGROUND

http://raptor.swarthmore.edu/jahall/ Original writings, anecdotes, and links with commentary convey a Net and world view on the Web. Coordinated craziness! [Exp. #140.]

THE MAIL ORDER CATALOG RESOURCE CENTER

ftp://ftp.crl.com/users/ro/csharrow/catalog1.html Comprehensive listing of US companies doing business via mail order catalog. [Exp. #140.]

MAKIN' WAVES STUDIO

http://cyberzine.org/html/Waves/wavepage.html Aussie-style humor abounds, complete with free .wav sound files for download. Commercial enquiries welcome. [Exp. #138.]

MARK HOLT'S HOME PAGE

http://www.sun.com/sunsoft/cdware/mark.html A collection of cool and unusual Web sites. [Exp. #140.]

MATCH.COM

http://www.match.com "We met on the Net!" Thanks to Match.Com, the online dating service for the '90s. [Exp. #140.]

MEXICO OUT OF BALANCE

http://www.igc.apc.org/nacla/mexico.html Hard-to-find, in-depth information and analysis concerning political, economic, labor, and trade issues in Mexico. [Exp. #138.]

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http://www.dnai.com/~modulus Catalog of high-end basses and guitars. [Exp. #138.]

MOTORCYCLE ONLINE

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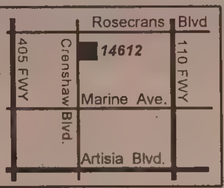

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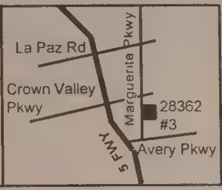

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New Wave Culture Plaza Inc.

http://www.rahul.net/newwave/newwave.html A mail order company dedicated to Chinese culture. Chinese CDs, LDs, CD-ROMs... [Exp. #140.]

The North Pole

http://northpole.net Browse the North Pole; read messages from Santa, his elves, the reindeer; North Pole weather reports. [Exp. #138.]

The Omega Transmissions—A Techno-Thriller

http://one.mind.net/omega/index.html An action-packed adventure about NASA's SETI project (Search for Extraterrestrial Intelligence). [Exp. #140.]

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http://directory.net/netinfo "New on the Net" report: includes all noteworthy registrations of commercial domains registered with InterNIC. [Exp. #138.]

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http://www.visionware.com/pat.html 110+ starting points for exploring the Web, HTML URLs, and me on a rock. :-) [Exp. #140.]

PhoenixWeb

http://www.ptltd.com BIOS, plug and play SW, PCMCIA SW, Eclipse SW for desktop, portable, and hand-held PCs. [Exp. #140.]

QuoteCom

http://www.quote.com/ Stock quotes, business news, financial market data for investors. [Exp. #139.]

Randy Ksar's Home Page

http://www.mvhs.edu/~rksar Gives links and documents to those in need of a quick overview of the Web. Also offers Web services. [Exp. #138.]

RTFM World

http://www.dnai.com/~cthomas/rtfm RTFM is an occasional rock 'n' roll band of Sybase tech support people. [Exp. #140.]

The Seamless Website™

http://tsw.ingress.com/tsw/ Advertisements for law firms and legal services providers; law review articles and other legal information. [Exp. #140.]

Sega Web

http://www.segaoa.com Product information and graphics from the interactive king. Contests for prizes. [Exp. #140.]

Sensational Seminars

http://www.onramp.net/sensational Sensational Seminars, Inc. "We Make Education An Experience" presents "Hollywood In Cyberspace". Monday, April 3, in LA. [Exp. #139.]

Sharrow Advertising & Marketing BizInfo=A9 Resource Center

ftp://ftp.crl.com/users/ro/csharrow/homepage.html Advertising and marketing reports and issues, mail order catalogs, ad parodies, humor and sarcasm, digital age issues and essays. [Exp. #140.]

The Shaw Festival

http://www.cyberplex.com/CyberPlex/Arts/Shaw/Shaw.html Information about shows currently being performed by the only company that specializes in plays written during G.B. Shaw's lifetime. [Exp. #138.]

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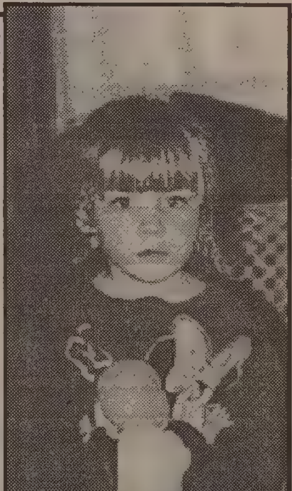

Miller, Jenny
Date of Birth:
05/17/90
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01/23/94
Missing From:
Oklahoma City, OK
Blonde Hair & Blue Eyes
Missing Type:
Family Abduction by Father

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Web Page Listings *continued...*

SOFAL'S PLACE
http://www.csua.berkeley.edu/~sophal Sophal's home page has many links to Cambodian-related home pages, not to mention his favorite quotations. [Exp. #140.]

THE SRMC SPIDER WEB
http://sweb.srmc.com/ Full-service ISP-WWW, 28.8, ISDN through T-1, as well as on-site support and maintenance. [Exp. #139.]

STANFORD CENTER FOR TUBERCULOSIS RESEARCH
http://molepi.stanford.edu Research at Stanford University tracking the spread of tuberculosis in San Francisco. [Exp. #140.]

STAR TREK: VOYAGER
http://voyager.paramount.com Latest Web site by Paramount promotes new Star Trek show and connects studio with the fans. [Exp. #138.]

STOWE MOUNTAIN RESORT
http://www.together.com/sms/stowe Photos, weather maps, snow condition reports, press releases, lodging information, insider's guides, and special offers. [Exp. #139.]

SUPERBUSINESS NET
http://www.sbusiness.com Web pages, ftp and Internet services for business. We will be featuring secure transactions via the Web. [Exp. #140.]

SYBASE HOME PAGE
http://www.sybase.com Info on products and services; views of the San Francisco Bay by clicking on BayCam button. [Exp. #139.]

SYMMETRIC TECHNOLOGY
http://www.symmetric.com Computer design, software development, systems, and networks primarily for Microsoft Windows and Windows NT Novell IBM-compatible computer systems. [Exp. #140.]

TECNATION DIGITAL WORLD
http://www.tecnation.com/tecnation/ Tecnation Digital World's online presence. Read about our innovative products and creative services. [Exp. #139.]

TELOS, THE ELECTRONIC LIBRARY OF SCIENCE
http://www.telospub.com/ TELOS publishes scientific titles with electronic components: CD-ROMs, diskettes, or files via Internet. It's cool. [Exp. #140.]

THINGS I'D LIKE TO SEE IN CYBERSPACE
http://www.clark.net/pub/journalism/wishes.htm A simple home page to collect the thoughts and wishes of those using the Internet. [Exp. #139.]

THOMAS
http://thomas.loc.gov US House of Representatives: full text of all bills of 103rd Congress, email addresses, more. [Exp. #139.]

TIM HO
http://cad.ucla.edu:/~ho A serialized comic strip about a PC computer mouse. [Exp. #139.]

TV NET
http://tvnet.com/TVnet.html TV Net provides information on broadcast/cable TV stations throughout the US and the world. [Exp. #138.]

UC RIVERSIDE, CALIFORNIA MUSEUM OF PHOTOGRAPHY
http://cmp1.ucr.edu Historical photographs, contemporary media arts, and children's projects are at the UCR/California Museum of Photography. [Exp. #140.]

UNIFORM CAPITAL ACCESS NETWORK
http://www.ucan.com/ucan/ Offers investors and entrepreneurs the opportunity to explore business prospects. [Exp. #138.]

continued on page 230

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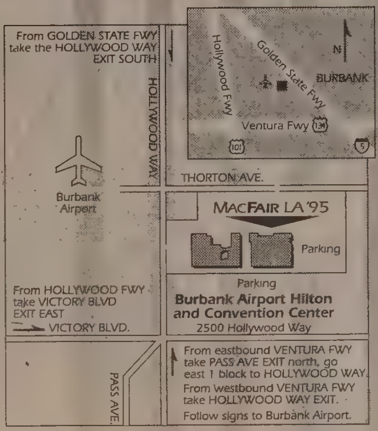
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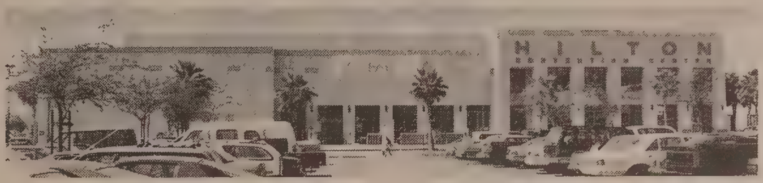
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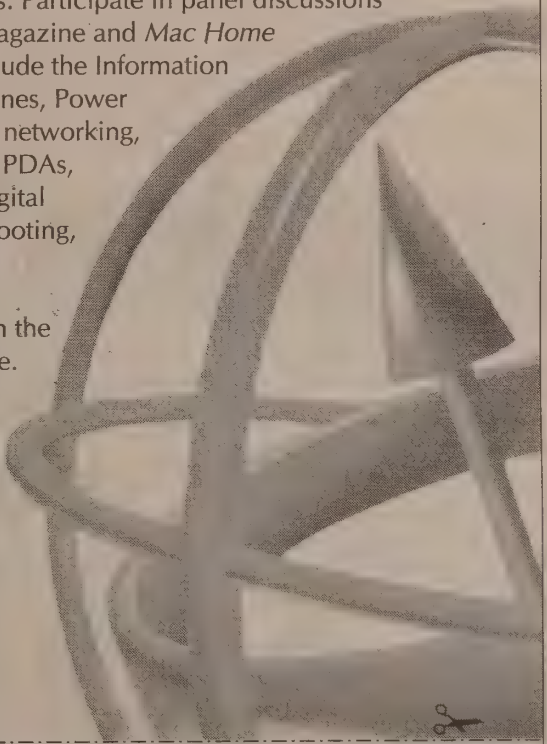

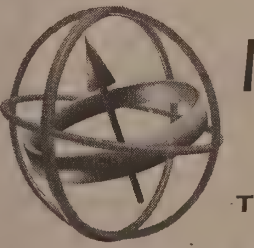

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BY BRUCE KOBALL

Security On The Internet

A Cautionary Tale

The recent arrest of fugitive computer hacker Kevin Mitnick made headline news, but it is important to look at the story behind the story. Mitnick stands accused of using the global complex of computer networks known as the Internet, as well as public telephone and cell phone networks, to break into numerous academic and commercial computer systems and illegally copy large amounts of sensitive information, including proprietary data from large corporations, credit card numbers, and individuals' personal files.

This case has generated a remarkable amount of media attention. I speak here from personal experience. Although I only played a small role in this drama, I've been besieged by journalists seeking a good story.

Strange Files

My involvement began on January 27 of this year when I logged onto The WELL, a computer conferencing system in Sausalito. Among the day's email was a note from The WELL's conferencing manager asking about an unusually large amount of storage (over 150MB) in an account that The WELL had provided in support of the Computers, Freedom, and Privacy (CFP) Conference, an annual public policy event that I help organize. The WELL's technical staff had apparently been running a diagnostic looking for disk hogs.

I checked the account and verified that none of the files seemed to belong to CFP. Obviously an intruder had somehow gained unauthorized access.

Some of the mysterious files contained email, so I scanned them in an attempt to identify their owner. All of it was addressed to a single individual. I didn't recognize the address until later that evening when the January 28 issue of the *New York Times* landed on my doorstep.

On the front page of the business section was an article by *NYT* reporter John Markoff, detailing the computer breakin that Tsutomu Shimomura, a computational physicist and computer security expert at the San Diego Supercomputer Center, had suffered over Christmas, including the fact that a large number of very sensitive files had been stolen. I realized that the files I had found were probably his.

Well, the alarm bells went off, and I immediately contacted The WELL with the bad news. I also contacted Markoff, whom I've known for some years, and talking to him off the record, I described the situation. He put me in touch with Shimomura and in the quick discussions that followed, we positively identified the files in the CFP account as those stolen from his system.

> The greatest irony in this case is that, while the government is spending its time and resources pursuing Mitnick and his ilk, it is also actively suppressing the technology that could have made his forays much more difficult or even impossible.

This discovery proved to be the intruder's downfall. For the next two weeks Shimomura, who was already on a crusade to catch the intruder, worked closely with consultants, volunteers, and The WELL's technical staff on an electronic manhunt that stretched across cyberspace as well as across the country to help law enforcement nab the suspect.

It's not difficult to see the appeal of this story. It has all the elements of a high-tech suspense novel and it reads like a movie script. Indeed, reports of book and movie deals have already surfaced. But to focus entirely on the drama of cyber-sleuth versus cyber-thief is to miss some interesting ironies and ultimately the most important implications of these events.

One amusing irony was the intruder's choice of the CFP computer account as a cache for his plunder. It was at last year's CFP conference in Chicago that the FBI detained a conference attendee because he reportedly bore a resemblance to Mitnick, who was then wanted for parole violation. Another was that several years ago, Markoff and Katie Hafner coauthored the book *Cyberpunk*, detailing Mitnick's early exploits in computer crime.

Crime And Privacy

A more important connection, though, has to do with the purpose of the CFP conference itself. Created in part because of concerns about computer crime and the proper response of law enforcement to it, the CFP conference regularly assembles computer security experts, legal scholars, law enforcement officials, and computer users to discuss these issues, and has resulted in a better understanding by all the parties of each other's concerns.

Consider the question of how law enforcement should treat private electronic mail contained in the computers of systems such as The WELL when those same computers may also contain evidence of a crime. It wasn't long ago that some law enforcement agencies would simply have seized the entire computer or at least its contents as evidence, compromising the privacy of the system's users in the process and effectively shutting down the system. Indeed, this has happened in past cases.

Such inappropriate action did not occur in this case, however, because the law enforcement folks involved now understand networks and email, and the laws governing them. At the insistence of The WELL's management, search warrants were issued for only those files directly related to the case; thus no user's privacy was violated by unnecessary government intrusion. (In another small irony, Kent Walker, the Assistant United States Attorney in San Francisco who became the lead federal official in this case, is also one of the CFP organizers this year.)

Issues And Implications

The electronic pursuit of the intruder raised other interesting issues. After I discovered the stolen files on The WELL, it soon became clear that the intruder had "hacked root," a technical term indicating that he had illicitly gained complete control of The WELL's computers. This meant that the intruder could read or modify any information on the system, invading the privacy of its users and generally wreaking havoc, should he choose to do so.

It also became apparent that the intruder had probably made similar attacks on other computers across the country, using the Internet and the public telephone system. Potentially, this intruder was a threat to a much larger community of computer users than just those on The WELL.

So The WELL's management faced a difficult decision—should it quietly patch up the hole through which the intruder had entered and hope that he hadn't left others hidden in the mass of computer code that runs such systems? Or should it allow the invasion to continue in an attempt to track the intruder, possibly incurring his wrath and risking the privacy and security of The WELL's subscribers? Computer system administrators often take the former path because they fear alarming their users and inviting copycat attacks.

After much agonized debate, The WELL's management decided on the latter path, but with painstaking surveillance of the intruder's every online move. Should he do anything that directly threatened The WELL's users, the plug would be pulled immediately. Indeed, as law enforcement officials were closing in on Mitnick a continent away, the intruder's probably accidental deletion of a small amount of some accounting data prompted the watchers at The WELL to do just that. Within a few hours, however, Mitnick was in custody in North Carolina, and the tense vigil in California came to an end.

The decision by The WELL's management to take the proactive path might be compared to community residents forming

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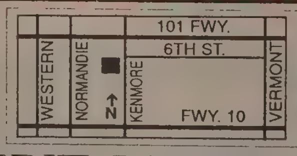

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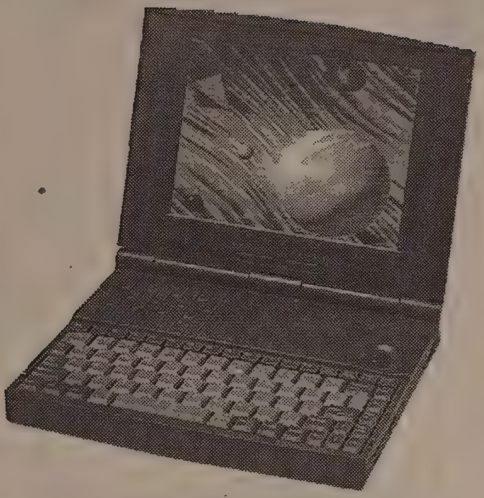

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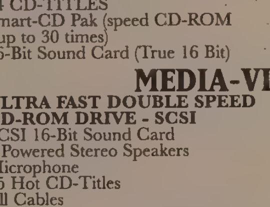

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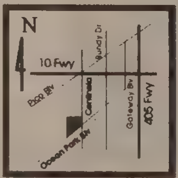

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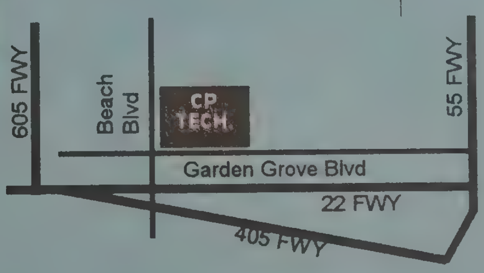

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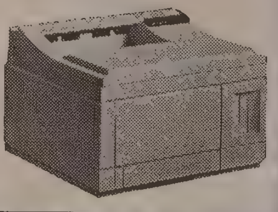

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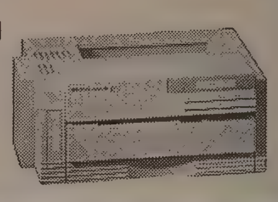

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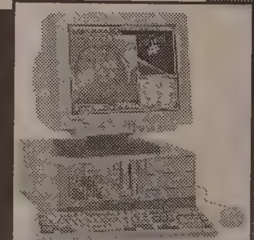

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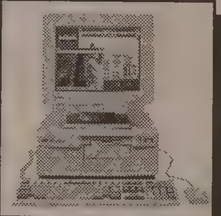

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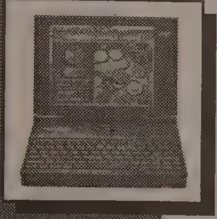

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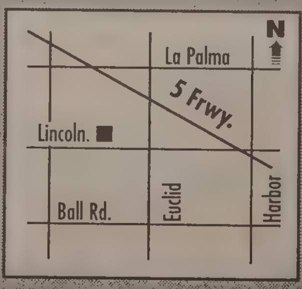

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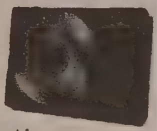

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UPDATES

Aspen announced **upgrades to its DX4-100 Universa E** notebook computers. The color screen is larger, larger hard drives are available, the prices have been reduced, and a new software bundle for mobile users is included. Prices start at $2500 for a DX4-100 with 4MB RAM and a 250MB hard drive. Aspen Computer, Inc., 5550 Main St., Williamsville, NY 14221. (716)626-0315.

Athena Design, Inc., released **Mesa 2.0.1**, an update to its 32-bit, multi-threaded, native OS/2 spreadsheet. The upgrade is available free from the ftp sites *hobbes.nmsu.edu:/os2/32bit/demos/mesa2.zip* and *ftp.athena.com:/pub/Mesa2/mesa2.zip* and *mesa2.txt* and the OS2AVEN forum on CompuServe, and from resellers. Athena Design, Inc., 17 Saint Mary's Ct., Boston, MA 02146-4007. (617)734-6372.

Century Software upgraded its network connectivity solution, **TinyTERM Plus**, to **v2.2**. The new version includes network printer sharing and enhanced file sharing services such as drag-and-drop file transfer protocol. $79 per user or $159 per user for TinyTERM Plus/NFS with a complete network file system implementation. Century Software, 5284 South 320 West, Suite C134, Salt Lake City, UT 84107. (801)268-3088.

HSC Software announced **Live Picture v2.0**, which features significant color correction and color separation controls, substantially reduced memory requirements, and faster image processing, among other new features. Suggested retail price is $3995, but registered users of v1.5.5 will receive a free upgrade. HSC Software, 6303 Carpinteria Ave., Carpinteria, CA 93013. (805)566-6200.

IST is shipping **OpenExchange PRO 1.5**, the latest version of its Windows database tool providing data import and export and other capabilities. The new version supports additional worksheet formats and has an improved interface. $189. Innovative Solutions & Technologies, 904 Jefferson Ave., Joplin, MO 64801. (417)781-3282.

MoneySoft, Inc., introduced **LenderPro v6.0**, a complete rewrite of its loan analysis and proposal generation software system. Introductory price of $295 is available through April 30; thereafter, the list price will be $495. MoneySoft, Inc., One East Camelback Rd., Suite 550, Phoenix, AZ 85012. 1-800-966-7797.

Mustang Software has released **Wildcat! 4.1**, the latest version of its popular bulletin board system software. The new version features enhanced OS/2 support, a new multi-database file system, and a full-screen ANSI-based file listing mode. Wildcat! BBS is available in five different versions ranging from $129 to $999; upgrades from v4.0 are $20 and $50 for older versions. Mustang Software, Inc., 6200 Lake Ming Rd., Bakersfield, CA 93306. (805)873-2500, 1-800-999-9619, or (805)873-2400 for their BBS.

Panacea, Inc., announced **TurboDLD*Demo* v2.1**, a free display list accelerator software package supporting AutoCAD Release 13 for DOS. In addition, it is a functional display driver for use with all versions of 3D Studio. Available free from the Panacea BBS at (603)432-5139 or the ACAD forum on CompuServe, or for $10 to cover shipping and handling. Panacea Inc., 24 Orchard View Dr., Londonderry, NH 03053. 1-800-729-7420.

Passport Designs is shipping **Alchemy 3.0**, a significant new release of its sound design software for Macintosh. Some of the new features include direct recording from any sound source using Apple Sound Manager 3.0 and Open MIDI System support. Suggested retail price is $595, current users can upgrade for $149. Passport Designs, 100 Stone Pine Rd., Half Moon Bay, CA 94019. (415)726-0280.

Streetwise Software released **Design Portfolio 2.0**, a powerful electronic publishing solution that interactively guides users through the process of creating business communications. Suggested price is $89.95. Streetwise Software, 2116 Wilshire Blvd., Suite 320, Santa Monica, CA 90403. (310)829-7827.

Systems and Synchronous has made available **Release 3.0 of its LANSleuth and LANSleuth+** software-only LAN analyzers. LANSleuth works with Ethernet LANs and costs $489, while LANSleuth+, for $749, works with Token Ring or Ethernet LANs and includes SNA decode capability. Systems and Synchronous, Inc., 900 East Diehl Rd., Suite 110, Naperville, IL 60563. (708)505-3900.

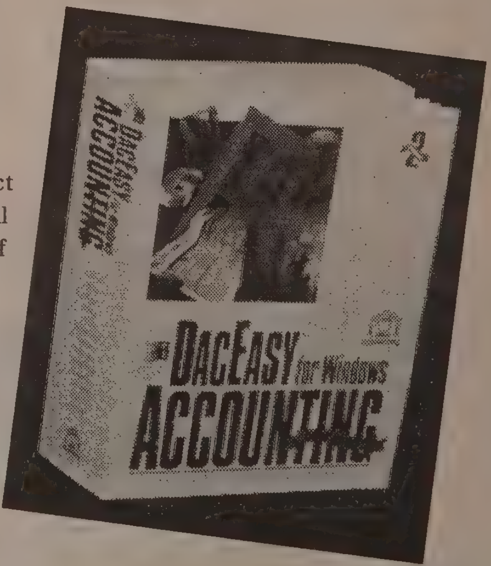
WaterGate Software released **PC-Doctor v1.5**, the latest version of its diagnostic software. The new version detects the Pentium FDIV flaw and simplifies new hardware installation. $129.95, with an OEM version available for bundling. WaterGate Software, 2000 Powell St., Suite 1200, Emeryville, CA 94608. (510)596-1770.

New Products

Business Software

DacEasy Accounting For Windows

DacEasy Accounting for Windows v2 is the first model of what DacEasy calls its "Contact Accounting" line—programs that integrate accounting and communication tools. It includes Call Tracker, Call Activity, Time Minder, DacMail, and Personal Assistant functions as part of its suite of communication tools. On the accounting side, back orders, finance charge calculation, and memorized transactions have been added. Call Tracker can take notes on phone conversations, assign follow-up dates, and bill for the time spent dealing with the client or project. DacMail is a letter merge function providing the ability to create collection or marketing letters that can be run for any range of customers or vendors meeting a customized criteria list. The Personal Assistant is a to-do list that provides fields for assigning to-do items to delegates and projects. ($149.95) DacEasy, Inc., 17950 Preston Rd., Suite 800, Dallas, TX 75252. (214)248-0305.



Continued on page 214

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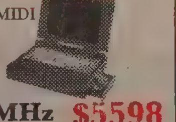

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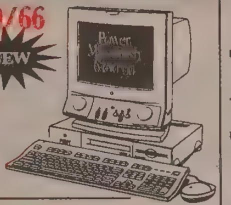

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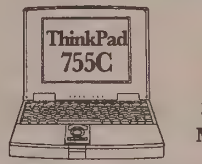

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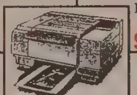

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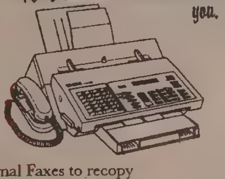

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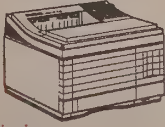

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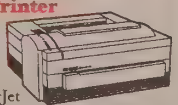

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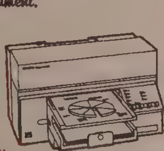

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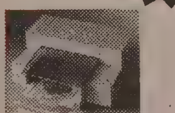

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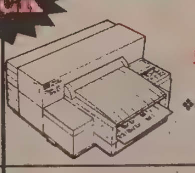

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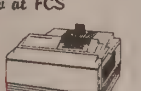

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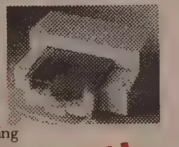

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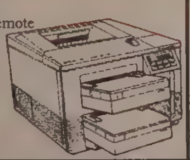

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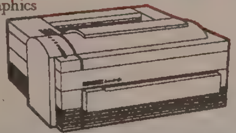

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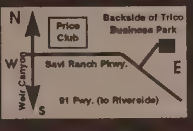

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- 15" Digital Control SVGA Monitor N-I (1280x1024, .28dpi)
- 101 Key Board, 3-Button Mouse
- Medium Tower Case
- Quad Speed CD-ROM
- Sound Blaster 16 Sound Card
- Surround Sound Speakers
- (115 Watt PMPO) MicroSoft Encarta, MS Works, MS Money, MS CD-Sampler

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Another Side Of Mu

If the brave new world of interactive multimedia is going to have any significance, if it's to be anything better than a cash-generating technological fantasyland, transmission and discussion of ideas will have to become core values. This was once the case in the mid-'80s when educational uses were at the center of research.

There are, of course, a huge number of educational CD-ROMs available today, as well as other worthy multimedia applications, but the central locus of the multimedia world has shifted to a more entertainment-based marketplace of fairly mindless consumer distractions. In the most disturbing scenarios there is an unholy coupling of silicon technology with the worst of Hollywood's brain-dead blockbusters—or flops, as has sometimes been the case.

Bob Stein is one of the strongest advocates of "serious" multimedia. His own ideas are quite distinct from many in the mainstream multimedia or computer industries. Indeed, many in that industry would not only disagree with Stein but would find his thinking positively alarming, downright crazy, or even dangerous. But, as one of The Voyager Company's original founders in 1984, Stein has earned the right to take whatever stance he pleases.

Voyager has been a longtime, preeminent leader in multimedia, publishing a wide range of CD-ROM and floppy-based titles—not all of them serious—since 1989. Arguably, Voyager's multimedia publishing began before computers and multimedia were linked in the public mind with its Criterion Collection of classic films on video disc, which included supplementary materials on the extra channels. Voyager's list now contains over forty CD-ROMs and sixty Expanded Books. Many titles were the first of their kind and have received high critical praise, not only for their content but also for their design and innovation.

Stein himself spent the earlier part of his life as a radical activist working with the civil rights and antiwar movements. He began Voyager in Santa Monica, but, after a premonition about the Northridge quake, moved the company to Manhattan in late 1993. In 1994, the Santa Monica office building collapsed in the quake.

Even in Manhattan and while operating Voyager, Stein continues to call himself a Marxist-Leninist-Maoist. In conversation, he is soft spoken, hesitantly reaching for words, and unafraid to reveal occasional inconsistencies in his worldview and life.

The Often-Contrarian Views Of Voyager's Bob Stein

By Jonathan E.

Cover Photo by Nancy Perlman

In your ten-year history with this medium you must have had a number of personal epiphanies, "This is a great idea, let's do this." Leaving the technical end of things out entirely, do you have a brief personal history? Your favorite moments, somehow an interface suddenly came to life for you . . .

I think that there are thousands at this point—that's almost too general a question.

I think that the first and most important was the one that got me started—I had occasion to do a paper for the *Encyclopaedia Britannica* called "The *Encyclopaedia Britannica* and the Intellectual Tools of the Future." In the course of doing that, I really had to think about books very deeply. "So why should the *Encyclopaedia Britannica* do something electronic? What's wrong with books?"

I found that as long as I thought about books in terms of their physicality, ink on paper, that I didn't get anywhere. But then I started thinking about books in the way they were used, and I realized that the book was the one medium where a user had complete control over the sequence and the pace with which they accessed the material. In a fundamental way this is probably where books get most of their power, aside from their portability and the relative cheapness—there's this issue that if I want to read the paragraph a hundred and nineteen times I can do it, whereas if you're really smart and only have to read it once, you can just do it once.

That gives the author tremendous power in presenting their ideas 'cause you don't have to worry about the pace at which somebody is accessing something.

Is this true? You can get a CD and listen to the same song again and again, you can set up a loop of 10 seconds.

This was before CDs existed. This was in 1980.

You can do the same thing with a vinyl record—you can keep lifting the needle and listen to the chorus again and again.

Yes, you can. You can do it with a VCR too, but you don't like going back. The way you go back fifty pages in a book like this *[demonstrates random access by flipping through a book]* is not like going back twenty-seven minutes with a VCR. It has to have random access; random access, it turns out, is an incredibly powerful aspect of the medium.

So when I started thinking about the fact that books were a random access medium, video disc was the one medium at the time that gave readers, as it were, exactly the same relationship with a film that they'd had with a book—you could easily go back ten minutes, you could watch it in slow motion, you could freeze the frame. You could really start to actively relate to the contents of a film the way you could with a book.

I started to develop this concept of user-driven media, which was like a book, as opposed to twentieth century electronic media, which up until then were all broadcast, they were all producer-driven. You sat there in the chair and you heard the music or you watched the movie, but you couldn't access it

ltimedia

randomly. I realized that the theme of everything I was interested in was the transformation of traditionally producer-driven media into user-driven media.

Did you see *Spinal Tap*? [He's referring to his CD-ROM, not the original movie.] To me, being able to search for the word "lemon" in a film and going right there [*snaps his fingers*] changes completely the way in which you will be watching films twenty years from now. I guarantee you that young filmmakers coming out of film school in the next five years will start making films knowing that that kind of complexity is going to be available to their audiences.

I think filmmaking is going to bifurcate. I think you're going to see traditional dramatic films made for big Imax screens—for spectacle. We all want to go to the same room with ten thousand of our friends and watch the same thing at once for the energy that comes from that. That's going to be on gigantic Imax screens and it's going to be fabulous. But I think you're going to see another class of motion picture makers who are going to make stuff for personal consumption, and it's going to be different.

So essentially there's going to be a sort of desktop . . .

I think laptop, bedside, under the covers.

We just want those prices to come down a little bit.

That happens.

How much personal reading do you do off the screen?

I don't do that much, because most of what I want to read isn't digitized. I will tell you that, all things being equal, I would prefer to read on a PowerBook on my lap.

Over paper?

But all things are not equal.

You're talking about formatting here, amongst other things?

Formatting is to me the most significant. I love beautiful books and the computer will never get near the beauty of books.

It will get closer. Eventually we'll have much higher resolution screens; there'll be color and all the beauty of a book. The visual beauty we should be able to transfer. Aesthetic touchy-feely stuff, the sensual touchy-feely stuff, we won't get to, perhaps ever; but the ability to navigate through an electronic text is so fabulous that we'll end up trading off the sensual aspect for the navigational aspects.

Brian Eno says that he's found these basically electronic publications extremely boring, partially, I think, because of the speed, but also because a book is so highly evolved, everyone knows how to use it. To some extent it seems that you must be trying to design a book of the future with some standard sort of navigational ideas and so on.

Have you seen our Expanded Books? It was a good first pass; I love reading them. The reality is that most of what I want to read is not in that format, so I don't.

There's a small percentage of people who swear by them. I was actually amazed at how many people that is. I didn't expect as many people to like them as did, because to me, when we did them originally it was really to make a statement: Someday you'll read on a screen. I didn't really think the time was then, but I thought it was just good enough to make the statement.

We found out that it was good enough and that a lot of people actually liked it. Where we fell apart was that—the thing about reading is that there are tens of thousands of books and we couldn't, by ourselves, get up to critical mass on electronic books.

You're still to some extent the only people who are really looking at text-based material—you've certainly done more with text than anybody else. A lot of people don't handle their text in a particularly clever manner. I don't recall—do you ever use scrolling fields?

No.

That's a pretty key issue, isn't it?

Gigantic.

I shouldn't say never. We do have some products out there, some titles that do have a scrolling field, but our books do not have scrolling fields. No, that was a *sine qua non*, basically.

What other key ways do you handle text?

We want to make the stuff look enough like a book that people who like to read would recognize it as a book and not say, "Yuck, that's a computer thing." We wanted people who like books to go, "Whoa, that looks like a book." I think we have been basically successful at that.

We wanted to maintain the functionality of the book as much as we could, so we made it possible for you to write notes in the margin, to underline text, to fold down corners of the page, to put a paperclip on a page, to make a vertical mark in the left margin, to do those sorts of things that people like to do.

It took us about six months to do it.

That was including conceptualizing? Did you sit down over a period of months and have meeting after meeting? I'm curious because I remember when we did the *Electronic Whole Earth Catalog* we had meeting after meeting and then, of course, when we'd done it we had even more meetings.

We had a model, which was books.

A Few Notes of Explanation for Our Readers

The Electronic Whole Earth Catalog

My personal involvement with multimedia began in 1988 when Kevin Kelly, now executive editor of *Wired*, but then editor of the *Whole Earth Review*, asked me to work on the sound for the *Electronic Whole Earth Catalog*. This was originally a demonstration CD-ROM project for Apple's HyperCard to show its abilities in handling fairly large amounts of text (conveniently enough, in our case, already mostly broken into small card-sized chunks), and multimedia (which back then mostly meant sound; video was out of the question, although we briefly considered including simple animations).

It being a Whole Earth and Apple project—and basically uncharted territory—there was a lot of learning to be done. Job descriptions became quite unrigid, meetings were many, procedures were improvised—a project manager's nightmare. However, dealing with the many design issues that frequently arose was stimulating.

Some of those issues are no longer so relevant; for instance, we now would not have to consider the restrictions of a nine-inch, black-and-white screen, which at that time was the standard configuration.

While we wanted to maintain as many qualities of the book as possible in the new medium, given the traditional large trim size of the *Whole Earth Catalog*, it was then impossible to recreate that look and feel on a computer screen. Even with today's larger color screens, it would be a significant challenge.

Other design considerations for electronic book publishing on CD-ROM still have greater relevance,—whether you should think about filling up your CD-ROM (back then I did, and feverishly digitized as many sounds as I could get away with), integration of different media types, and, with a text-based title, how that text is handled and what sort of search capabilities to provide.

These are the sort of issues Voyager has had to deal with—and, for the most part, has done so successfully, although there are also likely to be other acceptable solutions.

Eventually, the *Electronic Whole Earth Catalog* became a commercial product, distributed by Brøderbund. The pace of technological advance never slackened, our pioneering efforts soon became outmoded, and the *Electronic Whole Earth Catalog* is no longer available. Ongoing technological change may also become a challenge for Voyager in the future.

—Jonathan E.

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We did too.

No, you were trying to make a CD-ROM, but you weren't trying to make it look like the *Whole Earth Catalog.*

We knew we couldn't because of the size of the screen.

I was trying to make it look like a book, and I knew exactly what a book looked like.

It was interesting. We got an early prototype PowerBook that Apple had sent to our office. Florian Brody from Vienna was visiting, and Florian took ten pages of text from Paul Bowles' The *Sheltering Sky* and put it into a HyperCard thing that looked exactly like what we ended up with six months later. All he did was to put text on the page and put it in Palatino.

What's his background? Is he a type designer? A book designer?

Florian at the time was a researcher at the Austrian National Library. He's a long-term activist in the interactive media world.

Resources

(or Access as we used to call it at Whole Earth)

•Art Spiegelman's *The Complete Maus,* Stephen Jay Gould's *On Evolution,* Marvin Minsky's *The Society of Mind,* Roy Rosenzweig's, Steve Brier's, and Josh Brown's *Who Built America?,* William Shakespeare's *Macbeth,* Douglas Adam's *The Complete HitchHiker's Guide to the Galaxy,* Robert Winter's *Ludwig van Beethoven: Symphony No. 9 CD Companion,* Richard Lester's film starring the Beatles *A Hard Day's Night,* Rob Reiner's *This Is Spinal Tap,* Jim Petrillo's *Cinema Volta,* People Weekly's *20 Amazing Years of Pop Culture,* Laurie Anderson's *Puppet Motel,* and Rodney Alan Greenblat's *Rodney's Wonder Window* and *Dazzeloids* are all Voyager publications.

• *Blam!* is an independently produced CD-ROM-based magazine available through Voyager.

•Bill Barminski's *Consumer Product* is another independent production available through Voyager. Somewhat ironically, considering the conversation with Bob Stein, it presents strong ideas about advertising and consumerism but uses almost no text, although many words are included in artist Barminski's paintings. It is also available directly for $49.95 from Consumer Productions at (310)391-5897.

• For prices and technical requirements of Voyager titles, or a Voyager catalog, call 1-800-443-2001 or email to *catalog@voyagerco.com* . Voyager also maintains a Web site with info on all products, online order forms, chat and bulletin-board functions, and a whole lot of other goodies at *http://www.voyagerco.com* . Voyager also has a good presence at a retail level in well-stocked stores, including some bookstores.

So we spent six months basically trying to figure out how to do it. Every morning we'd come in and the programmers would have put in six more features, and we'd sort of have to take them away. All we wanted on the screen was the text and the page number, and a header saying what the chapter was. Nothing else, no buttons, no . . .

So you didn't want windows to click on for video and all that coffee-table stuff?

No. The basic level had to be just text on a screen as beautiful as it could be.

This was just the Expanded Books series?

Then we started putting in video and stuff like that, but that's different. This was when we were just trying to do straight text.

Nobody seems to understand this. People who love, say, the Marvin Minsky piece [*The Society of Mind*] or who love *A Hard Day's Night* even, or *Who Built America?*, don't understand that we never would have gotten to those if we hadn't done the simple books. The simple books were when we built the engine that really established the principles of putting text on the screen.

From day one, from five years ago, it was a three-part project. One was to do simple books; one was to do a tool that would let other people make simple books; and the third one was to expand the concept of a book to include motion pictures and audio—but still in a form that would be book-like, not in terms of its appearance but in the way someone used it, where you, the reader, would be in control of the experience.

There is, of course, a whole different philosophy, where you're trying to do something that you can't do with a book. I think that Marc Canter is probably as close as anybody to achieving that right now.

Marc and I are certainly at opposite ends of the spectrum.

It seems to me that there's room in this business for all of this.

Absolutely.

I think that I'm more catholic in my taste than other people. It's obvious that both are needed.

I think that if there's a spectrum that's two feet wide, we occupy two inches over on one end of it. The whole spectrum is interesting.

I sometimes wish there was more approval for the part of the spectrum that we're in. My own concern is that text is an unbelievably efficient way to communicate important ideas. My disagreement with people like Marc is that they don't seem to think there's any value in text, and I don't get it.

I think that they don't think of interactive media as being about reading off screen. I think they're looking for more interactivity with the computer as a machine. I think that the key thing is that they want the computer—interactivity to them doesn't mean selectivity, it means that the computer responds, not with a preprogrammed thing.

Now they haven't gotten to this point yet, but what they're trying to do is have the computer to read a lot of signs and come up with a new response that isn't a preprogrammed response.

That's completely fine, it's crucial, it's important work, it's got to go on. But it has nothing to do with what media have been used for traditionally, which is the transmission of ideas. To the extent that they are inventing the media of the future, they're inventing a medium that doesn't have a place in it for the transmission of serious ideas. That is a very, very scary proposition.

I believe that a thousand years from now we're all going to have implants, and you and I are going to talk directly with each other and we'll be able to generate pictures right out of our brains. But next year, if you want to talk to somebody about the crisis of what's happening, of racial pressure in this country—how do you have that discussion without words? The perfect example to me of this is when the LA rebellion happened and the truck driver got beat up. The media constantly ran these two sequences. First, they showed the Rodney King beating, then they showed the truck driver being beaten. Ordinary humans, which we all are, see those pictures and go, "Holy shit, this is horrible," because naturally when you see somebody being beaten it hurts, you emotionally react to that.

But what you were left with after seeing that is that these were equal events. And the reality is that there is nothing equal about them at all. Black people being beaten up by police is a common everyday occurrence in every city in this country. White truck drivers being pulled out of their trucks and beaten up by black people is not a common everyday occurrence in this society. And yet, without the context that you get from words, you're left with really the wrong picture.

So my disagreement with Marc is not about the value of what he's doing, it's about their disregard for the necessity of serious discussion. That's where we differ.

Is that from a conversation that you've had with him in particular?

No, let Marc stand for a whole strata of people, and sure, we've talked about this stuff. The people that are willing to give up text and are going for this Holy Grail of immersive interactivity to me are building the machines that Aldous Huxley warned us against. These are the machines that are going to control the population.

continued on page 152

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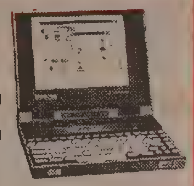

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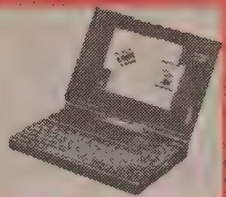

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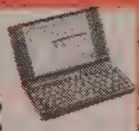

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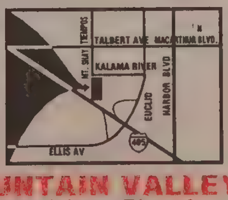

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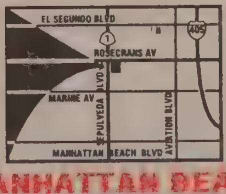

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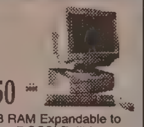

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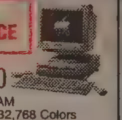

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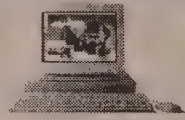

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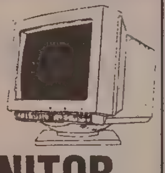

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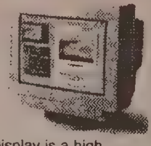

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- It includes stereo speakers and a headphone jack.

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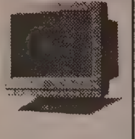
Apple® 17" Color Multiple Scan Display



- Multiple-scan technology allows you to adjust resolution
- 17-inch screen Sony Trinitron tube
- Comes with a tilt-and-swivel base that allows you to position the monitor for optimal viewing comfort
- Complies with the EPA's EnergyStar conservation guidelines
- Adjustable resolution through software (included): Selectable from 640 by 480 pixels to 1024 by 768 pixels

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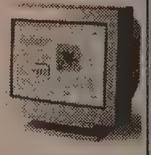
Apple® 20" Color Multiple Scan Display



- Multiple-scan technology allows you to adjust resolution
- 20-inch screen Sony Trinitron tube
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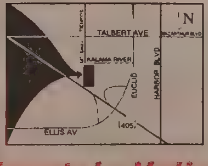

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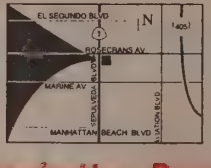

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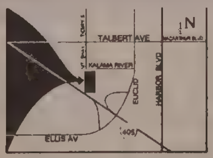

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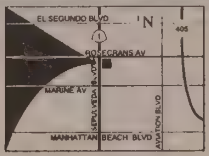

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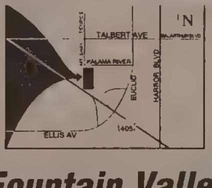

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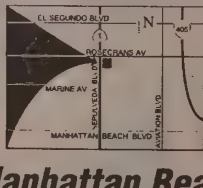

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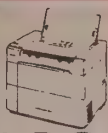

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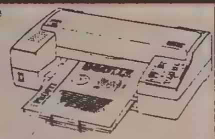

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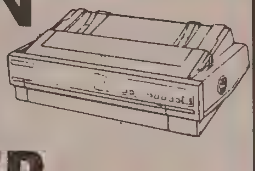

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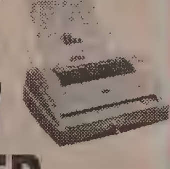

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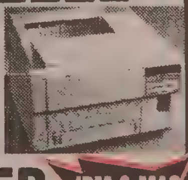

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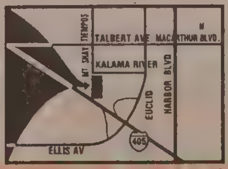

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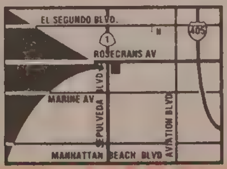

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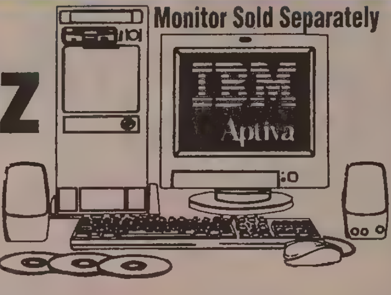

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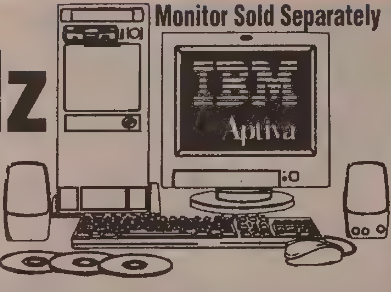

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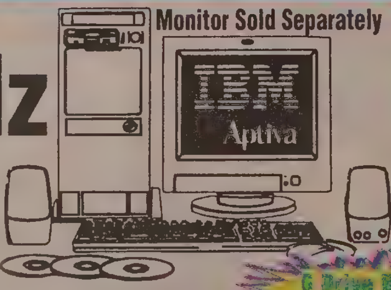

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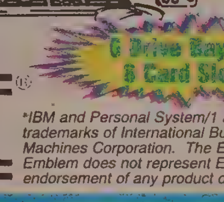

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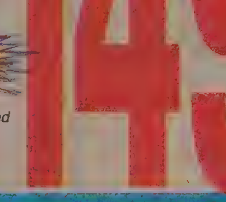

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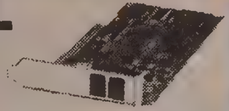
14,400 BPS INTERNAL DATA/FAX MODEM



Data Compression ITU V.42 bis or MNP Class 5
- Error Correction ITU V.42 or MNP Class 2-4
- Saves long distance phone costs through faster transmissions
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- Protects your investment with a 5 year warranty, backed by AT&T

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- Saves long distance phone costs through faster transmissions
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$119.99

AT&T Dataport Express

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GROUP 3 Compatible • 16550 UART
BITCOM and BITFAX S/W • Supports up to Com 7 and IRQ-9
5 Year Warranty
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SIIG, Inc.

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Communicator Gold

Complete Communicator Gold
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MODEM
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MNP5 and V.42 bis • Data throughput up to 57,600bps
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- 1000 password protected mailboxes

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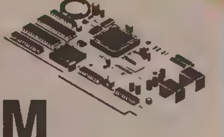

- V.42,V.42bis, MNP 2-5
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- Includes hardware-based compression and error correction for greater efficiency.

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Supra Corporation

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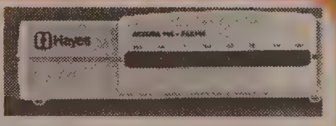

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- Group 3 Fax
- V.42, V.42bis, MNP 2-5
- Cables included

08-01174
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Cables included
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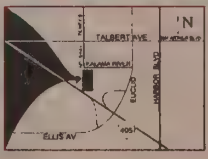

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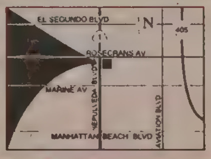

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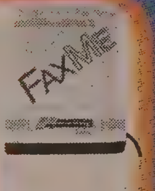

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Lifetime Warranty.
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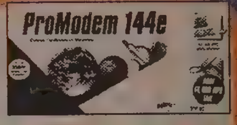

for Windows and DOS
Includes MaxFax Software from Prometheus
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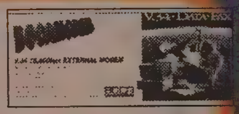
BOCAMODEM V.34 28,800 bps External Fax/Modem



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BOCAMODEM V.34 28,800 bps Internal Fax/Modem

V.34
DATA
FAX

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- 14,400bps Send/Receive Group 3 Fax
- V.42bis Data Compression for Troughput Up to 115,200bps
- High-Speed 16C550 UART Serial Card on board
- Backward Compatible with V.Fast Class (V.FC) and Lower Speed Modems
- Five Year Warranty

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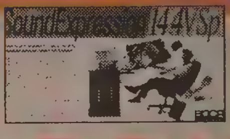
BOCA SoundExpression 14.4VSp



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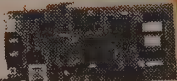

V.32 bis, V.42 bis, MNP 2-5 • Windows and DOS Software
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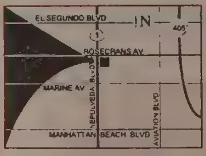

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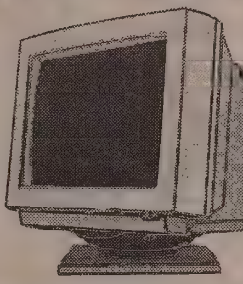

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DIGITAL CONTROL
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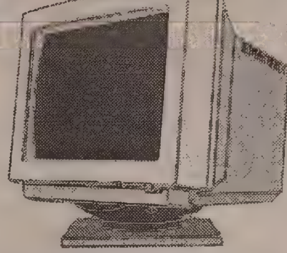

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DIGITAL CONTROL
ON-SCREEN PROGRAMING
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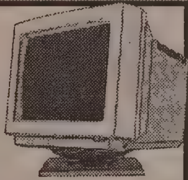

1280 x 1024
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w/DIGITAL CONTROL
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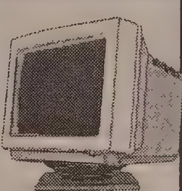

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.26mm Dot Pitch
Flat Screen

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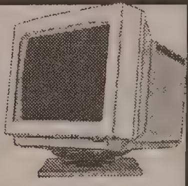

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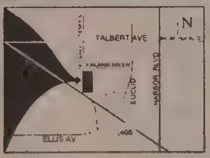
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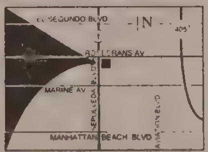
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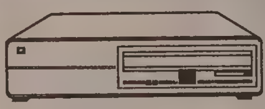

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Ideal for Back-ups!

- Cables, terminator, and formation software included
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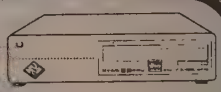

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Read 44MB Write 88MB Syquest
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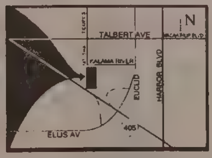

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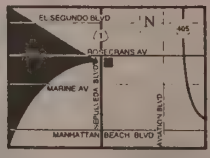

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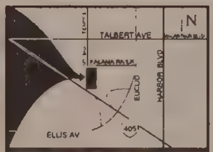
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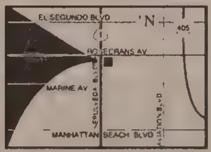
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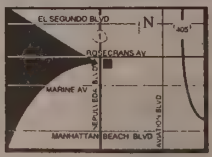
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7850AV
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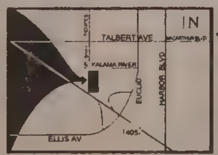
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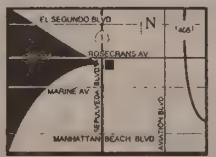
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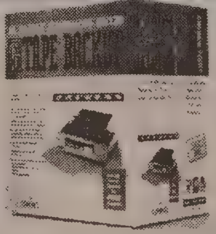

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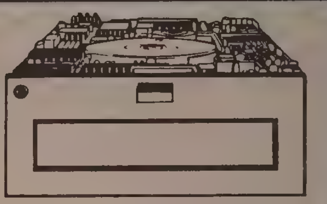

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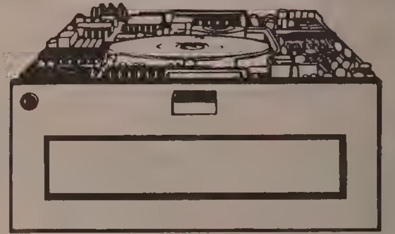

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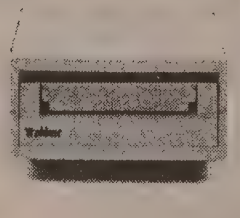

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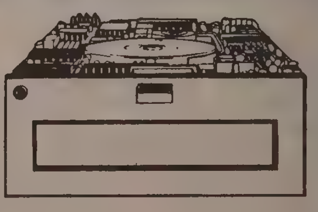

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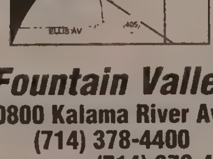
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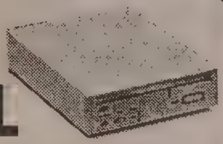

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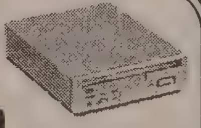

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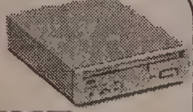

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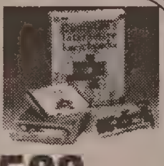

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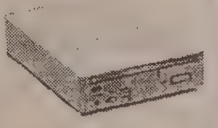

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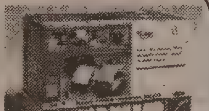

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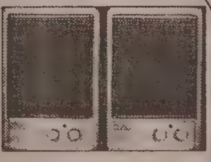

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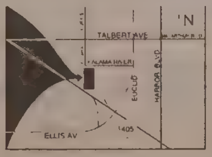

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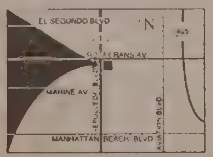

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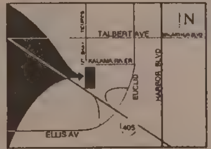

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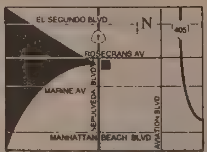

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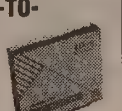

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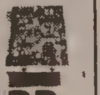

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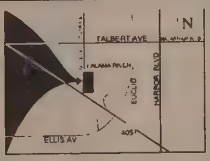

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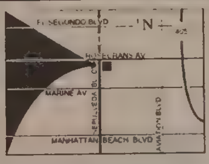

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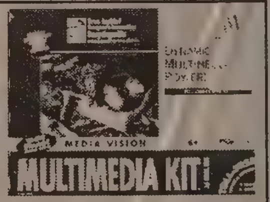
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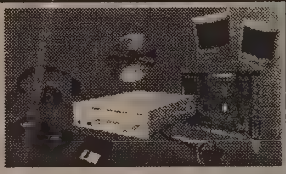

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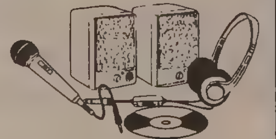

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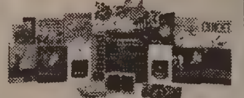

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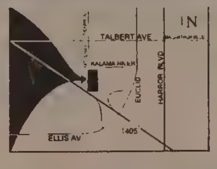
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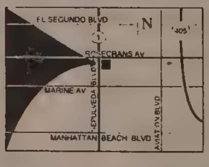
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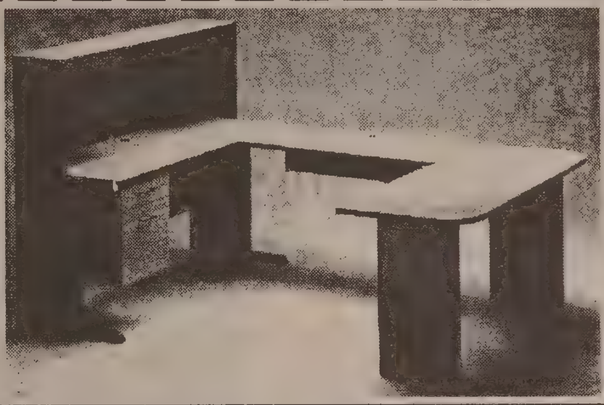

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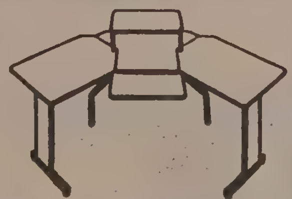

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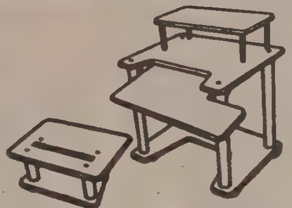

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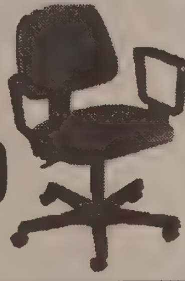

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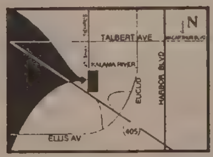

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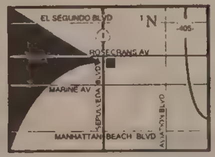

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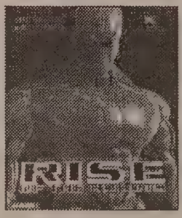

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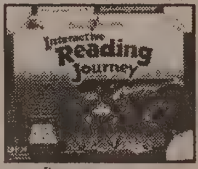

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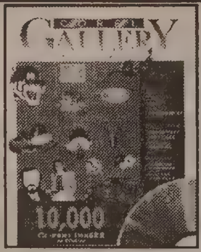

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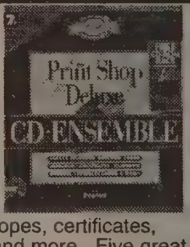

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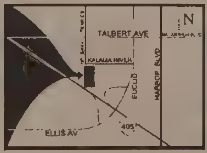

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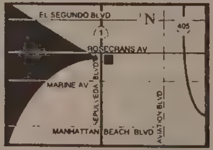

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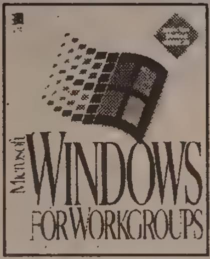

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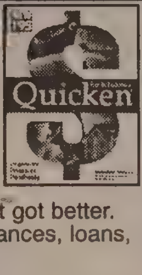

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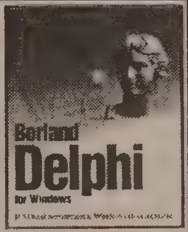

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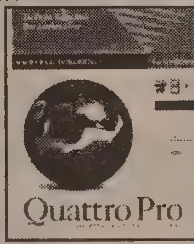

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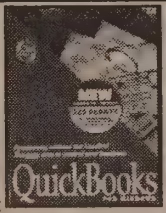

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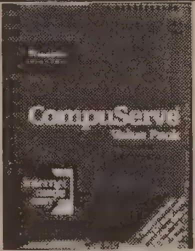

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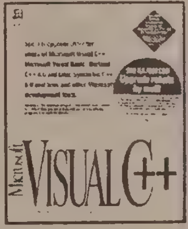

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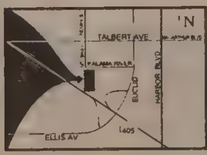

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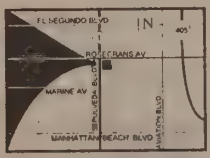

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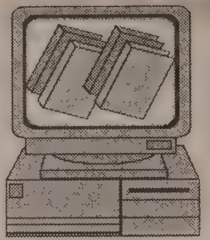

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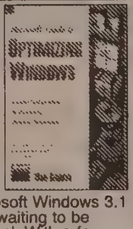

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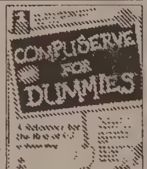

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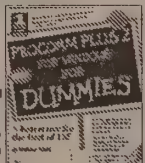

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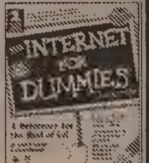

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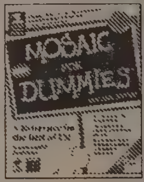

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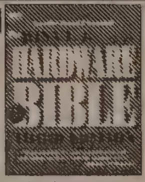

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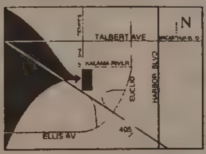

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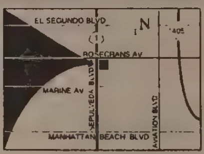

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Scanners

Canon

IX-4015

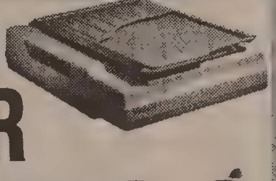
COLOR IMAGE SCANNER

The IX-4015 comes with everything you need to start scanning today, including a Quick Start Guide, OFOTO 2.0 for Windows, SCSI Cable and Cable Terminator, and TWAIN Device Driver for the PC
- 400 dpi x 1200 dpi Maximum Resolution
- Color: 12 - 800 dpi, Monochrome: 12 - 1200 dpi
- SCSI Interface

$759

#1997578

RELISYS
A Brandname of TECO Information Systems



RELI 2412

COLOR SCANNER

- Resolution 300 X 1200 dpi
- True Single Color CCD sensor
- Software Interpolation 2400 x 2400 dpi
- 16.8 Million Color Recognition
- ColdScan Technology • Art-Scan Scanning Software
- Auto-Configuration SCSI Card
- Includes transparent Adapter

$789

#1981395

Mustek™

TWAIN SCAN DUO 600 SCANNER

This scanner offers true color input, 24 bit per pixel color scans, capturing 16.78 million colors. High color saturation and the distinctiveness of details give the user a better visual perspective of scanned images. Photographs, artwork, or text are scanned at a true vertical resolution of 600 dpi and a true horizontal resolution of 300dpi. Duo 600 offers 256 true gray scale scanning for black and white images.

$469

#1949519

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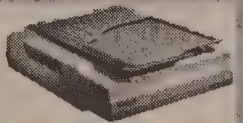


Avec 2400

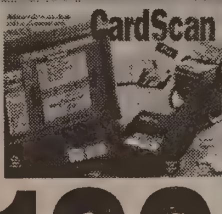
24-BIT COLOR SCANNER

- up to 2400 dpi
- Twain Compliant
- ColdScan Technology
- Imagine Editing Software Included

$449

#1981384

Corex



CARD SCAN PLUS

Automatically Scans, Reads, and Files Business Cards with No Typing
- Scan directly into ACT! or other contact managers.

$189

#2001410

QTRONIX
INNOVATION & INTEGRATION

SAGITTA GRAY

256 GRAY SCALE HAND SCANNER

- 256 True Gray Scale
- 800 dpi Resolution
- JPEG Image File Compression
- Auto-Stitching & Deskew Function
- TWAIN Windows 3.x Driver
- Omnifont Text Recognition

$74.99

#1850811

QTRONIX
INNOVATION & INTEGRATION

SAGITTA

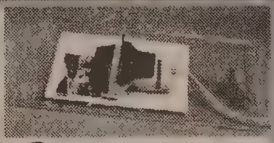
COLOR HAND SCANNER

Features:
- 100 to 800 dpi resolution
- True RGB color producing 16.8 million color(24 Bit total)
- 256 True gray scale scanning
- 64 gray levels (dithered)
- Unlimited halftone patterns
- Scalable halftone size
- 4.13" scanning width
- Scanner Interface Card

$179.99

#1938124

ScanTrac



Guide for Handheld Scanner

- Increase your OCR's speed to recognize text.
- Scan both sides of a page without moving the artwork.
- Compatible with Pc and MAC scanners.
- Designed to achieve flatbed accuracy at a fraction of the cost.
- Easy to assemble.

$26.99

#1639937

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SEPULVEDA BLVD
AVIATION BLVD
MANHATTAN BEACH BLVD
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1

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SURGE PROTECTION

POWER BACKER PLUS

300VAUPS protects against surges, brownouts, and blackouts. Protect Your Data!

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KENSINGTON®

$79.99

POWER CENTER

WITH FAX MODEM PROTECTION

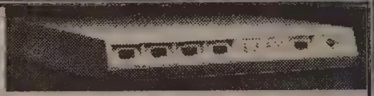
- 5-outlet surge protector
- 5 individual controls
- Lighted master on/off switch.

Interex®
Computer Products

$17.49

#1976456

COMMAND CONSOLE

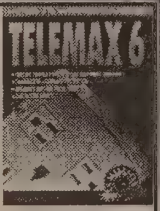


- Provides fingertip control of computer and all peripherals
- Rugged metal housing supports even the heaviest monitors
- 720 joules of surge protection
- Diaagnostic indicators alert you to power problems (including brownouts) before you turn your computer on
- Suppresses up to 36,000 amp spikes

$79.99

#1993493

TELEMAX 6



Surge Protection for Computers with Modems and Fax Machines

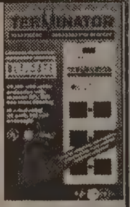
- Lifetime product and connected equipment warranty
- Guaranteed lighting protection
- Enhanced EMI/RFI noise filtration
- Diagnostic lights

$64.99

#1993079

PANAMAX(P)

TRIPP LITE TERMINATOR SURGE SUPPRESSOR



Protect your sensitive equipment from devastating AC spikes and line noise. The Terminator's protection is so effective, we insure your connected equipment against surge damage, even direct lightning strikes, for life! 6 outlets and 6' cord. UL approved.

$34.99

#1851018

7-OUTLET SURGE ARREST

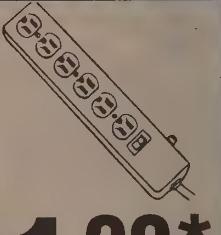
- 240 Joules Dissipation
- Site fault wiring indicator
- Reduce Intermittent Lock Ups and Parity Errors with EMI/RFI Filtering

$18.99

APC
AMERICAN POWER CONVERSION

#1651256

6-OUTLET BASIC SURGE PROTECTOR



Clamping ResponseTime <1 Nanosecond
Energy Dissipation 60 Joules

$1.99*

#1619399

*After $2 Mail-In Rebate. In-Store Price... $3.99

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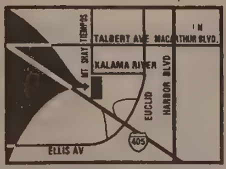

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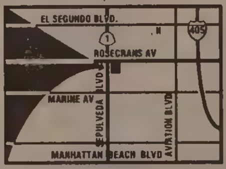

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THERMA PLUS PAPER

FAX MACHINE WITH PAPER CUTTER

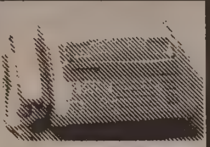
ACS ANTI-CURL SYSTEM

Brother's breakthrough fax machine incorporates newly developed therma plus technology which uses fax paper that feels like plain paper and reduces print fading (lasts 3 times longer than thermal paper under normal filing conditions, and you can even use a highlighter!). Other features include, 10 page document feeder, 15 station memory, 16 level grey scale, activity report, polling and much more for only...

$248

Model
FAX-620
#1896510

brother



THERMA PLUS PAPER

FAX MACHINE WITH 256K MEMORY, OUT OF PAPER RECEPTION & BROADCASTING

ACS ANTI-CURL SYSTEM

If your looking for a fax machine for your home office or workplace, look no further than this premium valued fax machine from Brother that incorporates 256K memory for Out-of-Paper Reception and Sequential broadcasting with Auto Paper Cutter, 60 Station Memory, 32 Level Gray Scale, 16 Digit LCD Display, 15 Page Document Feeder, Therma Plus paper capacity, an Anti-Curl System, Super Quick-Scan, Alphabetic Telephone Index, and much more! An excellent value at only...

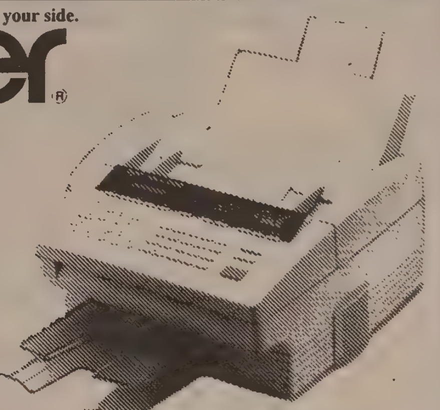
WHILE SUPPLIES LAST!

$299

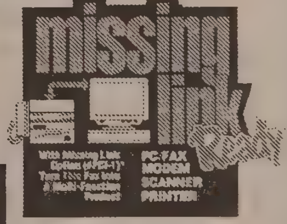
Model
FAX-740
#1985218

We're at your side.

brother®



PLAIN PAPER LASER FAX AND COPY SYSTEM WITH PC LINK CAPABILITY


missing link
With Missing Link Option (#PCI-1)* Turn This Fax Into A Multi-Function Product
PC-FAX
MODEM
SCANNER
PRINTER

Brothers state-of-the-art Laser fax machine combines laser print quality with copier capabilities of up to 99 continuous copies along with reduction and enlargement capabilities, and PC Link capability enabling you to utilize the laser fax machine as either a Scanner, PC/Fax Modem, or a printer! Other features include 256k memory for out of paper reception or sequential broadcasting, 30 page document feeder, 200 page sheet paper tray, 140 station memory, 32 level gray scale, and much much more! The best home office investment you will ever make at just...

After $100 Mail-In Rebate. In-Store Cost $799 Plus Tax.

$699*

Model PPF-2500
#1925173

brother

THERMA PLUS PAPER

FAX MACHINE WITH 1MB MESSAGE CENTER & PC LINK CAPABLE

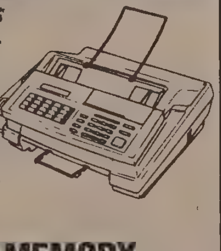
ACS ANTI-CURL SYSTEM

Brothers revolutionary fax machine offers a digital message center for either18 minutes of recording, up to 50 page of memory for out of paper reception, or you can configure the storage memory to be usedon a first come first serve basis. The optional missing link will allow this fax machine to act as a PC/fax modem, a scanner, and a printer! Other feature include anti-curl system, uses ThermaPlus paper, quick-scan, 164' paper roll capacity, 15 page document feeder, auto cutter, sequential broadcasting, and 60 number memory just to name a few.Now only...

$399

Model
FAX-820
#1925195

brother



PLAIN PAPER FAX WITH 256K MEMORY

Brother's done it again! Last year Brother broke the $400 price barrier in paper cutter Fax, and for an encore, Brother has destroyed the $799 stand alone plain paper Fax barrier with this unbelieveable value. Its 200 sheet paper cassette, 30 page auto document feeder, on-screen programming, "smoothing" enhanced image resolution, 48 digit LCD display, multiple resolution transmission, 32 level grayscale, 160 station memory, and Fax/Tel Switch makes this the best value you will find at only.....

$499

Model
FAX-980
#1801828

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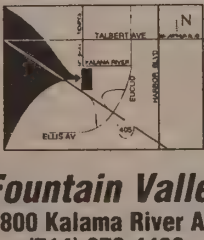

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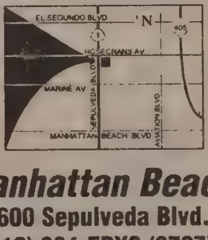

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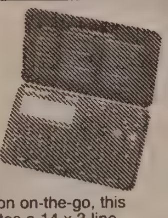
SHARP ORGANIZERS

SHARP.

34K PERSONAL ORGANIZER



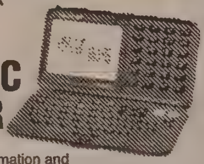
Perfect for the business person on-the-go, this compact data bank incorporates a 14 x 3 line display, built-in calendar, schedule, phone /memo, memo pad, expense, clock, anniversary, and calendar functions as well as QWERTY keyboard to simplify data entry. Once you've used this electronic marvel, you won't leave your home or office without it.

$\$49^{95}$

Model YO-110
#1741472

SHARP.

128K ELECTRONIC ORGANIZER



The Sharp YO-370 is a pocket sized, personal information and time management tool that allows you to link it to a PC (with optional accessory). Keep a log of all upcoming projects and sort your list by priority Track your business and personal expenses and summarize them by day or between days. It also stores birthdays, anniversaries and holidays and provides advance warning for these important events. Stores 1,680 names and numbers or 1,040 schedule appointments. (128K) all for the low price of...

$\$118^{95}$

Model YO-370
#1955367

SHARP.

512K PEN BASED ORGANIZER

512K of memory, easy-to-use database, calendar, schedule, anniversary, phone directories, to do lists, PC/Mac connectivity as well as, standard infrared communications capability for sending data to another wizard or a printer, make this Sharp organizer an excellent investment for anyone with too much to do and to little time to do it in! Now just...

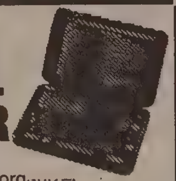
$\$399$

Model OZ-9520
#1902897

ROYAL ORGANIZERS

ROYAL

PERSONAL ORGANIZER



Royal has designed a pocket-sized personal organizer with an easy-to-read 3 line by 12 character display, RapidTouch oversized QWERTY keyboard, a schedular function with alarms, telephone directory, memo file to store important notes and information, home/world tome, and a 10 digit calculator. All for just...

$\$24^{99}$

Model DM-80
#1997604

ROYAL

66K PERSONAL ORGANIZER

WITH BUILT-IN AUTO PHONE DIALER

This unique personal organizer allows you to dial stored numbers using any touch tone phone automatically! Other features include 66K memory, an easy-to-read 3 line by 14 character display, RapidTouch over sized keyboard, telephone/business card memory to store names, addresses, phone, fax or pager numbers, schedular, memo file, to-do file, programmable expense manager, and much more. Now only...

$\$69^{95}$

Model DM-166 Plus
#1997637

ROYAL

128K PERSONAL ORGANIZER

WITH BUILT-IN INFRARED UNIT TO UNIT DATA TRANSFER

Royal has packed the power of 128K of memory storage with the built-in ability to transfer data between selected Royal Organizers via infrared to give you the best personal management value available today. Other features include a wide 3 line by 18 character display, 3 separate programmable expense manager files, telephone/business card directory file, to-do list and memo files, schedular with alarms, home/world time, metric and currency conversion capabilities, and much more. An excellent value at...

$\$79^{99}$

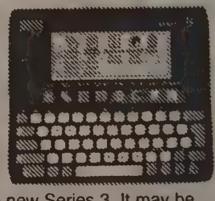
Model DM-2128
#1997589

PALMTOP COMPUTERS

PSION SERIES 3

POCKET SIZED 512K COMPUTER

WITH BUILT-IN SPREADSHEETS



Psion has redefined the state of the art in hand held computers with the new Series 3. It may be small, but this pocket-sized programmable computer comes equippedwith features found in desktop machines plus powerful built-in software, including a full specification word processor and outliner that's compatible with Microsoft word. When using the Series 3 you will quickly learn from the system of graphic displays and option list how easy the Series 3 is to use. And with Psion's unique Multitasking Operating System, as many of the facilities as you want can be used at the same time! Other features include an automatic phone dialer,world information, a time and personal management file, powerful graphics programming language (OPL/w) which will enable you to write your own applications and two expansion ports for plug in SSD devices for unlimited memory and software.

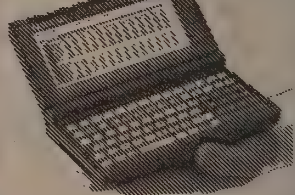
$\$399$

Model SERIES 3A
#1843567

HEWLETT PACKARD
Authorized Dealer

1MB PALMTOP COMPUTER

WITH 80x25 FULL SCREEN MS-DOS 5.0 & BUILT-IN POCKET QUICKEN



The smallest, lightest HP PC ever comes equipped with complete organizer software to manage your time, tasks and data, plus you can retrieve information instantly with a full range of built-in personal productivity tools. The pull-down menus and dialogue boxes make it simple to master the familiar commands, and the high-resolution display with zoom option is easy to read ! With Lotus 1-2-3 built-in you will have full spreadsheet capability, including graphics and macros. Also includes CC:Mail built-in. Now only...

$\$498^{99}$

Model HP-200LX
#1941670

PCMCIA 1.5MB FLASH MEMORY CARD

MobileMax
1.5MB
Maxtor

For HP Palmtops
Maxtor 1.5MB

$\$149^{95}$

Model Mobile MAX
#1979758

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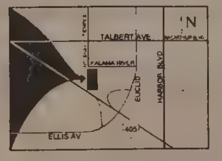

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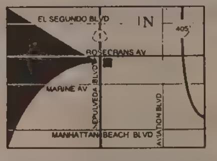

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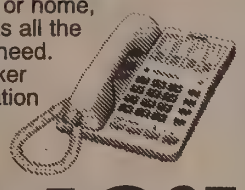
YOUR BEST PANASONIC HOME OFFICE BUYS ARE ALWAYS AT FRY'S

SPEAKERPHONES

Panasonic

SPEAKERPHONE



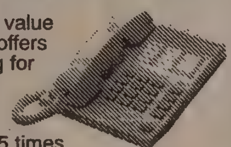
For the office or home, this phone has all the features you need. It has a speaker phone, 28 station automatic dialer, automatic redial and much more.

$49.95

Model KX-T2315
#1530100

Panasonic

SPEAKERPHONE



This outstanding value from Panasonic offers one-touch dialing for up to 28 16-digit telephone numbers, auto redial for up to 15 times, redial memory transfer, and a save button for temporary redial memory storage for only...

$59.95

Model KX-T2355
#1287186

Panasonic

LCD READOUT SPEAKERPHONE

This outstanding value from Panasonic offers a 12-digit LCD readout for phone number, clock, call timer (minutes & seconds), and operating modes. Perfect for the home or office at only...

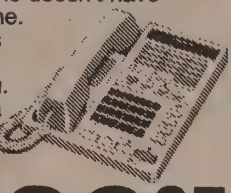
$69.95

Model KX-T2365
#163665

MULTI-LINE PHONES

Panasonic

TWO-LINE PHONE



A two line phone doesn't have to cost a fortune. Panasonic has the low cost answer for you. This unit has a convenient auto dialer, conference calling and much more!

$69.95

Model KX-T3110
#1505313

Panasonic

2-LINE SPEAKERPHONE WITH LCD DISPLAY

From Panasonic comes this fully featured 2-line speakerphone with LCD display, 3-way conference call, volume control for speaker and handset, 24-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$89.95

Model KX-T3175
#1745122

Panasonic

THREE LINE SPEAKERPHONE WITH LCD DISPLAY

From Panasonic comes this fully featured 3-line speaker-phone with LCD display, 3-way conference call, volume control for speaker and handset, 48-station one-touch dialer, auto redial, flash, separate ringer tone, line status indicator, memo dial, and save redial, all for only...

$169.95

Model KX-T3185
#1768039

HIGH TECH CORDLESS PHONES

Panasonic

30 CHANNEL PALM-SIZED EXTENDED RANGE 900MHz CORDLESS PHONE

This Panasonic 900MHz cordless phone features a unique palm-sized design with lighted keypad, 30 channel access, high gain rubber antenna, reversible handset, sound charger, noise reduction technology, and more, all for just....

$199.95

Model KX-T9500
#1948839

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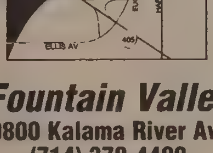

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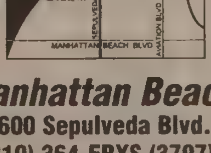

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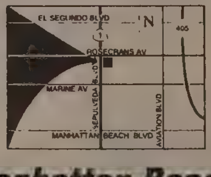

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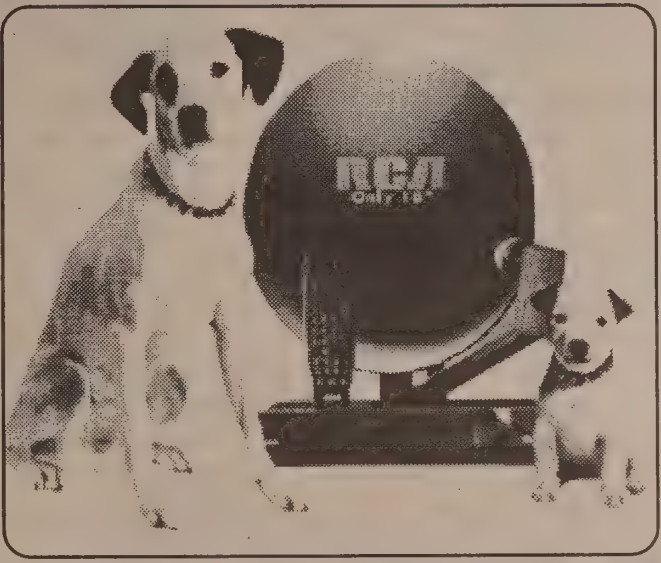

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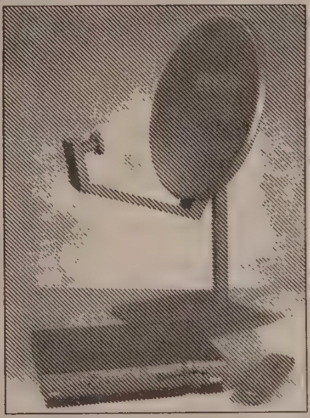

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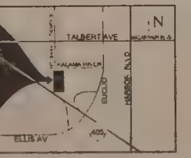

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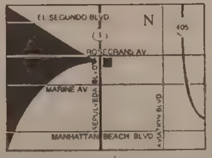

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You are an unrepentant radical?

I'd much rather be known as an unrepentant radical than someone who grew up and saw the light. I can't stand that bullshit. I am unrepentant.

You'd like things to be different?

Things have to be different. It's not even a question of personal choice; it's just that inexorably things have to change.

It's a question of survival, of species survival?

No, I just think that the one constant in all of life is change.

Do you think change is going in the right direction?

One of Stephen Gould's main things these days is trying to point out that change is not necessarily progressive, it's not necessarily in a good direction. But if I looked at it at a more micro level, conditions are getting so bad for so many people that eventually some charismatic leadership will come to the fore that—well, the trouble is, that charismatic leadership could be a Hitler and take us down the road of fascism, or charismatic leadership could take us toward the revolution.

It's extremely hard to predict what's going to happen, but I think that a lot of people in the computer industry tend to see one of these curves that goes like this [*sketching an exponential curve in the air with a hand*]—you know, computers are getting faster and somehow life is going to get better, or at least stay on this plane—and it won't.

There's a real cargo-cult thing going on with computers and technology. *Wired* magazine is full of it.

Yes.

Personally, I'm extremely skeptical that technology's going to make anything better . . .

I'm completely skeptical . . .

I think that basically technology only sets the basis. I mean, real change is made by humans. Technology sets the basis for that change.

I tend to think that the technologies that we have now, the computer technologies and the communications technologies, pose a set of contradictions that are so antithetical...

If you take the idea of everybody having high-powered communications technology in their hands, and the idea of all of us talking to each other and using that to the potential that we could—that seems to be so antithetical to capitalism and the current society that we have, I mean the very hierarchical top-down, rich people at the top and all the rest of us in the middle and at the bottom. That kind of a system really requires powerlessness on the part of people, and especially powerlessness in terms of our being able to communicate with each other.

This whole question of many-to-many communication that we see, first on fax lines and then on the Internet—that kind of technology seems to be tremendously threatening to the status quo, and so I don't really believe that the good technologies that are out there right now are going to be allowed to work whatever magic they could, because I think that the bourgeoisie basically will try to take control, which may in fact give rise to a real struggle for power in society.

I think that potentially there is going to be a battle on the Internet where the big broadcast companies and the big movie companies and everybody, who have been used to broadcasting their position out to everybody else, don't really like the idea of us getting as much pleasure out of talking to each other. And so, it's all up for grabs, you know; it's the first major shift in human communication in 5five hundred years. It's going to play itself out over the next one hundred years. I can't predict how it's going to play itself out but it's going to be one hell of a party.

What are you doing personally about it? Do you use the Internet a lot? Do you do a lot of many-to-many, are you on user groups, and . . .?

I'm not yet. The Internet to me up until now has not been very interesting because I'm not very interested in the low-resolution, unformatted-text-only. I really love beautifully laid out typography, and so the Internet has never been something interesting to me in that sense. It's now getting better looking with Mosaic etc., and as soon as I can get myself a machine that's fast enough, the thing I carry around is too slow for access to the Internet.

So I say I'm way behind the curve on that. I'm more concerned about our lack of thinking about these questions. At first when you asked the question, I thought you meant what am I doing about it politically.

That was one part of the question.

The two things that I do that are most germane: We try at Voyager to publish things that contribute to the dialogue in society in a way that helps to raise big questions, at least. We try to respect the intelligence of our readers and to enable them to participate in some kind of a dialogue.

And the other thing is that to the extent that I have a soapbox, I do try to raise these issues—depending on the group. I mean, if I'm talking simply to technologists I'll often talk about the question of our responsibility to think about the kind of society we want to live in and to try to understand the trajectory of what we're doing. In other words, a hundred years from now what difference will it make if we built the Internet many-to-many, or an Internet that is head-end in, broadcast out?

Or, more deeply, what is happening to kids that are spending so many hours playing video games. Is this okay? Is it not okay? Am I being hopelessly conservative that it makes me nervous? Or am I actually asking a reasonable question?

Once a couple of years ago, after I'd been speaking, I asked the audience, "If you had the opportunity to invent the combustion automobile at this point, a passenger automobile with a combustion engine, would you do it?" I said I wasn't so much interested in the environmental issues as deeper sociological issues, such as what happened to the cities as a result—the whole suburban growth and the malls, the decay of urban life as it were. Would you do that?

It's been consistent that I've been shocked by the response. Not so much that people say "Yes," they would do it again; that doesn't surprise me so much. What bothers me much more is that I get back a lot of antagonism, "How dare you ask the question? Why put that responsibility on me?"

You're asking technologists this question? They're in love with technology. The issue is that people won't ask these questions because, I think, it attacks their very being—or what they perceive their being as being.

I think it attacks their being but I think more fundamentally it puts on them a responsibility they don't want to take. In other words, those of us who are lucky enough to make a good living, or a reasonable living anyway, in the world of technology—we eat in good restaurants, we have nice homes, we take the nice vacations, and we like our toys, right? So if you had to think what the result of this is going to be four or five generations from now, at the very best you'd have to be an agnostic, at the very best, it seems to me. That's sort of where I am.

You're an agnostic, not an atheist, on these issues?

Yeah, because I don't think technology's bad per se.

Why not?

Well, because otherwise you really have to go back to living in caves. I'm too far removed from caves. I can't imagine what that would be like to live without language. So here I am in 1994 and I think the wheel was probably a reasonable invention.

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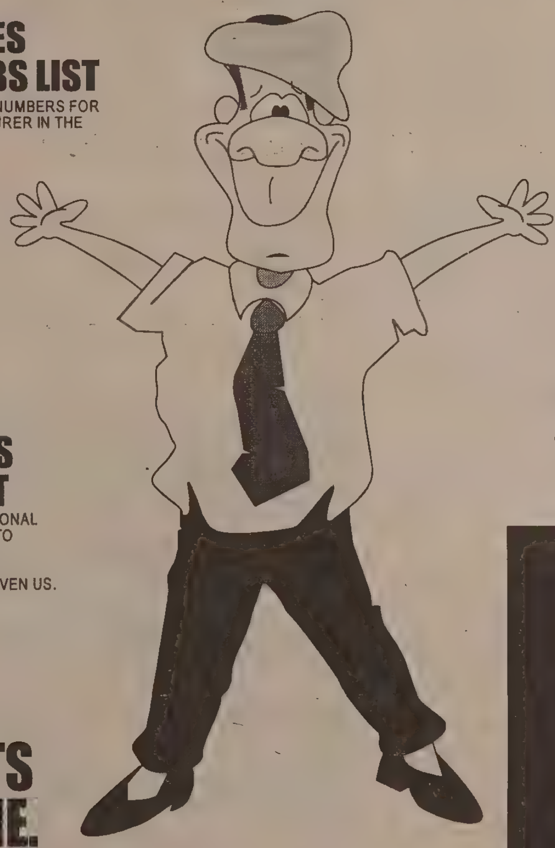

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True—but aren't we at a point where technology solves some questions but also throws up new problems?

But it seems to me that we're now at a point in history where we actually can understand that not all technology is good, and that we do have a responsibility, a social responsibility, to make a decision about how to go.

I think that up until now basically if something got invented and somebody could make a buck off it, they pushed it and it seems to me that that's no longer an acceptable position—yet under capitalism it's what we're going to have. It seems to me that until we get rid of capitalism we're not going to be able to deal with the question of really figuring out as a whole society which way we want to go.

So what's the alternative that you would personally prefer?

I would like to live in a society where money was not the driving force. I think that clearly the problem here is that all major decisions are based on profit.

That's the way people keep score; it comes down to a competitiveness that we have.

There are lots of ways to keep score.

I think perhaps that it's better not to keep score at all.

Well, it might be, but the reality is. . . .

The Chinese actually used to have an expression in sports, which is "Friendship first, competition second." You and I can go out to the basketball court and play one-on-one and fight like hell and then walk off the court, put our arms around each other, and have a beer. You can compete without fucking the other person over. Capitalism is different; there's a question of a small group of people taking the resources for themselves and leaving everybody in the shithole.

I think it's a big problem in the computer business. There's a lot of competitiveness and it's not friendly. One of the things that struck me the press clips from Voyager's press packet is that they're very competitive on this East Coast/West Coast sort of issue.

I can't believe how many people call me up and all they want to talk about is "Why did you move to the East Coast? Is everything moving here?" It's remarkable to me.

The reality is that I moved to New York because it's a more exciting place to be. There were problems with Los Angeles and San Francisco both from our perspective. New York didn't have those problems and it was an incredibly creative environment.

What were the problems with San Francisco?

San Francisco is a city that is extremely focused on hardware and money. In the computer industry here there's a lot of keeping score. There's the whole question of whether you're driving a Porsche or an Acura or whatever it is people like to drive, and what your stock is and all this kind of stuff. It's really central to the computer industry.

In New York the question of people's personal wealth and money is not as apparent as it is here. I'm not sure of the reasons, I don't want to get into it. The reality is that in New York, compared to the West Coast, there's a sensibility that is artistic and creative in its own right, without having that always called into question by money, the way I always found it was here.

That's interesting. I think it varies here. There are different scenes but it's true you go to a lot of people's offices and they're talking about their stock prices.

The art scene in San Francisco is fabulous, but I think that it's quite distinct from the computer scene.

That would be where you'd position yourself? We're going to talk about computers and software companies versus publishing. You view yourself as a publisher as I understand it—as much as you can.

[sighing] I view myself as a publisher; I would call a software company a publisher. The problem for me is that I walk into here [the SF Book Fair] even, and we're over in this sort of ghetto, the multimedia ghetto, which upsets me. In Frankfurt, for example, we've always insisted on being in the book section because I don't want to define what I do by the hardware. I want to define what I do in terms of the ideas in it. And so I don't like being relegated over here by the definition of what machine it plays on.

Let's talk about that for a moment. We know it's not a CD-ROM industry, we know that CD-ROM is a passing phase, and clearly one of the things that happens in general is that QuickTime goes from version 1 to 2, and it would be great if you could redesign all your products to take advantage of a bigger screen.

What are you looking at in the future? Where are you going with the platform, if we can use that word? You've adapted to Windows?

[*with a big sigh*] Yeah, sort of.

We've all got to do that, I'm afraid.

I don't know, it's going to be very interesting to see what happens with Windows. I'm not convinced. It's just not clear to me. It is possible that if Apple and IBM get it together and build a decent cross-platform machine that we could stop looking at Windows per se and make stuff for the Macintosh operating system and be real happy.

> "The sensual touchy-feely stuff of books, we won't get to, perhaps ever; but the ability to navigate through an electronic text is so fabulous that we'll end up trading off the sensual aspect for the navigational aspects."

But having said that—as a publisher, our commitment is to be on whatever platform makes sense, and for the kind of stuff that we do right now, CD-ROM is the only really reasonable platform for it. Sometime in the next several years the Internet will be a place where we could publish our stuff but I'm not as big a believer in online.

I believe in online distribution, but I don't believe in online usage of published works in the sense that we know them today. Take something like Art Spiegelman's *Maus*. If you go through that CD-ROM, if you go through most of it, it's probably going to take you somewhere between ten and fifteen hours, depending on how fast you read, to absorb it all.

I don't want to have to dial up every time I want to read my book. I want that to be resident on something I'm carrying around with me. Maybe someday online stuff will be so easy that it'll be transparent—literally, opening it up puts me online, remembers where I was in the book, that's fine. But that seems to me like that's going to be twenty, fifty years from now, not next year, not two or three years from now.

And so I think that, for the foreseeable future, a lot of the really complex and

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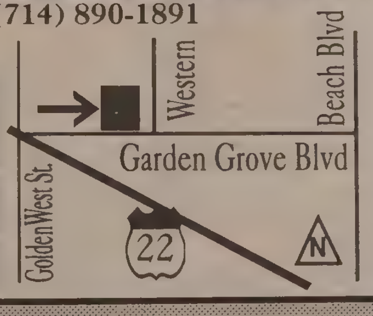

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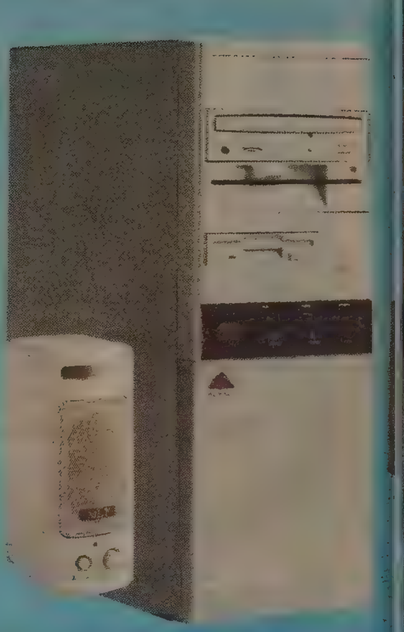

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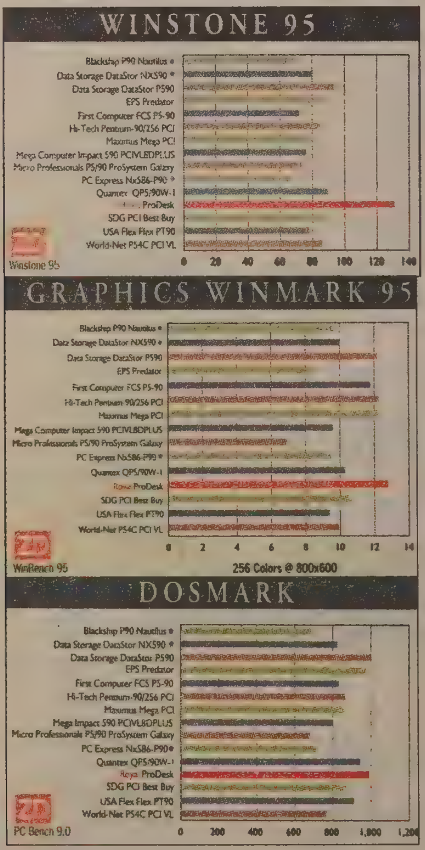

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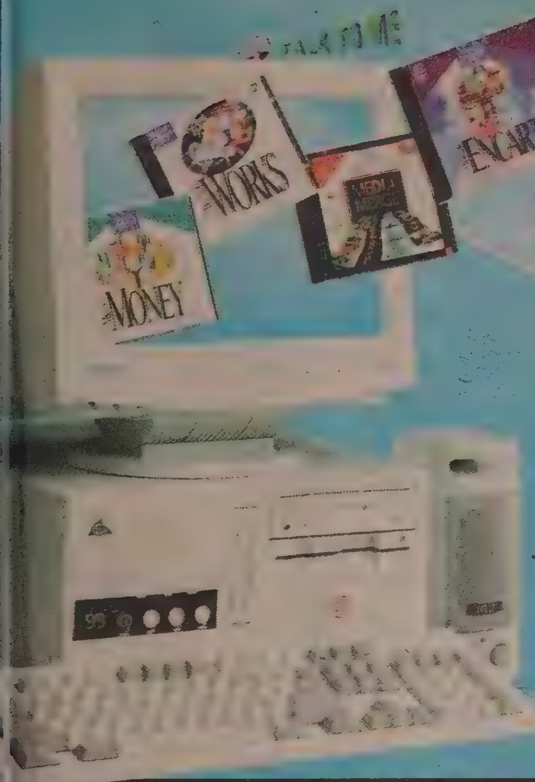

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dense stuff that we do will be on some kind of a local storage medium that you actually either buy in a store or download onto something on your machine. I think that the kind of stuff that we're going to see on the Net that's really successful is real-time interactive stuff, where you're doing something with other people at the same time as they are, and it can't possibly be done locally.

For example, I think that we'll see artists who, in effect, will create environments that people spend time in.

Talking a little more about platform technology, are you thinking about MO discs or anything like that? CD-ROMs—you know they could go either way as far as I can see.

I don't care, I guess. What I'm interested in is, I want to deliver a relatively high-resolution, interactive media experience for our reader.

So do you have a technical adviser that's going to come to you in a year's time maybe and say, "You should think about this," or do you just pick it up from...

The reality is that we just pick it up from—mmm, you know... We're hardly the first person anyone comes to; in fact we tend to be the last, for technical stuff.

But we do hear about stuff. In over ten years—when video discs first came out, we started making video discs and made our name; when HyperCard first came out we were the first company to glom onto it, and we did some interesting stuff. When it was possible to put a CD-ROM onto a CD audio disc and connect that to a Macintosh, we were the first company to do the Beethoven. We were the first company to put a major feature-length film onto CD-ROM with *A Hard Day's Night*. So we're not high-tech, but we're pretty good at knowing when it's possible to do something interesting.

I was wondering how formal a process you had.

It's not very formal.

The other thing is that by the time something is ready to come to the consumer market, it's been talked about for a long time in the tech world.

If you're asking me if there's anything I'm hearing about now that's exciting to me, it's mostly the Internet stuff that's interesting. But I tend to think that for Voyager's purposes right now that the Internet is most interesting as a marketing place.

The kind of stuff that we make, I don't see it on the Internet real soon. Entirely new kinds of stuff, I could see it on the Internet. We're into fiction. We've been endlessly thinking about fiction at Voyager, trying to understand what fiction is like when it comes to interactive media, and I can absolutely understand fiction on the Internet right now.

Which would maybe be the author reacting to his readers day-by-day?

I don't know what it is.

But you have some ideas?

I have ideas, but on the other hand, nobody's really come to me with a great idea that I've thought "Yup, that's it, let's do it." Nor have I identified an idea and an author and said, "Let's do it."

When you hear it, you'll know it and you'll be ready to go.

That's what you hope. You hope you see the opportunities when they come, but God knows you miss some.

You've actually been very successful in finding a way to not have money be the driving force.

Well, but the reality is that Voyager has always been, and is still, on the edge of disaster financially. People who work there make half of what they would make anywhere else, or less. We do it because we want to. There's nothing successful about this company except its work—that is, successful in standard terms.

It's well known that Voyager is not about making money and that people there are underpaid. Anybody who wants to raid Voyager knows where our weak points are.

You still get hundreds of resumes; people want to work with you.

Yes, and hardly anybody's ever left—on their own two feet, anyway, of their own free will. One person, a senior programmer for years, went to Kaleida a couple of years ago. It was his big dream to work for Apple; he left Los Angeles and went to Kaleida and he worked there for two years. Next Monday he starts back at Voyager.

That's a tremendous compliment to the company. It's a company where it's a tradeoff—people don't get paid very well, but they get to do things that they're proud of.

What do you look for in a potential employee? We're giving an advice column to our readers.

We're looking for people who have a passion for the world of ideas, and want to figure out how these technologies can be used to express them, and especially want to work with authors.

As a publishing company our principal work is editorial in terms of helping authors say something and get that out into the world. Sometimes people come to us and internally are very frustrated by our low technological level, but the reality is that the only thing we have that is proprietary is our wits.

There's a young programmer that we have right now who's terribly frustrated that our stuff is so primitive technologically. And I agree with him—I'm frustrated too. I'd love it to be different. I'd love to be able to spend a million dollars on every title and have it be technically every bit as good as the content—but I don't have the choice.

> "I realized that the book was the one medium where a user had complete control over the sequence and the pace with which they accessed the material. In a fundamental way this is probably where books get most of their power."

That's an economic situation?

Yes.

Are there any authors you particularly want to work with, that you think would make a great title that you haven't gotten to yet? Who might be on the drawing board who you wish were on the drawing board?

There are a lot of famous authors who I'd like to work with, but my hope isn't with them so much.

You're looking for new talent then?

Yes. I love working with Stephen Gould; it's fabulous working with Laurie Anderson; we're hoping to do a project with Michael Ondaatje. There are lots of people in the music world that I'd like to work with—but the reality is that, big names,

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they have their own trajectory of their work. Somebody who's getting a million dollars to write a new book, or to do a movie, or to do a new CD, they're not going to take a year off to really understand this medium and do something tremendously original, even if they could.

So that's the key? They don't understand the medium? They understand the old media but not the new media?

I'm not sure whether they understand, but they're not going to take the time required to really make it their own. What an artist does is, they take something that exists and they put their personal stamp on it. But that takes work and time and thought and effort.

It's not that people are lazy, it's like a natural tendency—if you're really good at writing books, you write another book. It's risky to take a year off. You know if Douglas Adams takes a year off to do a CD-ROM, that's a million dollars he's not going to get, and he could fail in a way. Nothing critical of Douglas, I think Douglas is fabulous, I'd love to do something with him—but I see the problem he has in committing himself to do something.

This seems like a situation that has got to change if there's a multimedia market.

I don't think so. I don't think it will change. I think we will see . . . One of the main reasons why we ran this New Voices competition was to encourage people who saw themselves as artists to do something in this area.

Have you seen Bill Barminski's *Consumer Product*?

Yes, it's in our catalog.

If he'd come to you early in the process, is that the sort of thing you might have said, "Yeah, we'll go for that"?

The problem with his piece from our perspective—it's a great piece, I love it—if he comes to us and says, "I want you to fund my making of it and I want $100,000 to do it," I've got to say "No," because it'll never make $100,000.

The reality is that the original stuff that needs to happen needs to be done by artists by themselves in their off time. It hasn't changed—the same way that musicians have day jobs before they're big, before you become a big pop star you have a day job—and I think that in the multimedia business it happened because it grew up in San Francisco and Hollywood. People forgot that; people don't acknowledge this need for there to be a period in which you nurture this stuff like an artist does. People want to be paid for it up front, and you can't be paid for stuff like this up front, because you can't . . .

So are you saying that Art Spiegelman didn't have an advance on his *Maus* CD-ROM?

He had an advance, but it was nothing like what he would have gotten somewhere else. I gave him $20,000 or something.

I love the Barminski piece, but the reality is that when they came to us for funding, which I think they did, we had to say "No" because there was no way that we could afford to fund that as if it were going to be a hit.

And you read the content as it's not going to be a hit?

No, there's no way.

I think it's the funniest CD-ROM I've ever seen.

That may be.

So you would look at a project at an early stage and you would have to make some sort of a commercial evaluation as well as what your cash flow is . . .

There are two possibilities—if it's not going to cost us very much. All I ever want to do is to break even, I'll run with anything if I can break even on it. I'm even willing to lose a little bit. But I can't put up a hundred or two hundred thousand dollars and not have any idea of what I'm going to get back. Some of the freshest stuff we've done is where somebody came to us and said, "I did this. Would you publish it?"

That might be *Blam!* for example, or *Cinema Volta* ?

Blam! or *Cinema Volta* or the Rodney Greenblat stuff. Then I can give that person $15,000, they put it in their pocket and they're totally delighted. We can put it out on the market and they get royalties.

So if someone wants to come through Voyager, in essence they have to be able to carry themselves through the production period?

If they've got a piece that is arty.

But the *People* magazine piece, was that a joint venture?

Yeah, that was a joint venture with *People.* And with *Macbeth,* I can spend $250,000 and know that I'll sell it for twenty years and I'll get my money back. So it also depends on a back catalog thing. Are you looking at all into a pop market thing? I'm from a music background, I'm interested in having a Top 20 of CD-ROMs that cycles through every few weeks.

Yes, we'd love to—but the reality is that most of the things that sell real well are games. The budgets on most of the games are north of half a million dollars, or much more than that. And we're not structured that way. We're not structured in a way to bet the bank on three or four titles in a year and have them be games. We'd rather do forty more intellectual, edgey type of stuff than four games at a million bucks apiece.

It always strikes me that one of the problems with CD-ROMs in general is that people try and put too much stuff in them. Instead of making a short experience—and I fell prey to this on the *Whole Earth Catalog*—I said, "Look, we've got 650 megs, we'd better fill it up"—and you don't actually have to do that.

Yeah, you don't have to, but I've seen it at Voyager; it happens on every single project. The piece itself keeps wanting you to put things in it.

How much personal hands-on do you have with titles?

I usually try to identify the ones that are different from any that we've done before and I try to focus on those. Since the early stuff we did with Beethoven and some of the video work I haven't been very hands-on, I've mostly played executive producer role.

Would you look at it in progress and say "change the interface" or "make this link"?

Yes, when it's something new that we're doing. I'm much more involved than you might think but not on everything.

You're involved in every decision to put out a title?

Yes, sure, we don't do anything I don't like. But on the other hand we have an editorial board of about fifteen people and we trust the basic decisions to that board.

They would bring you ideas?

It's both. It's both ideas that we generate and things that come in from outside.

Do you go out looking for people a lot?

Yes, I do.

Did you look for Laurie Anderson?

No, Laurie actually came to us. But I do spend a lot of time reading books and going out and finding those authors or those musicians or those moviemakers. That's what publishers do.

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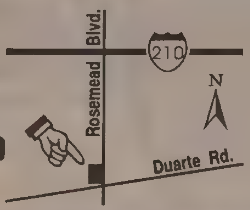

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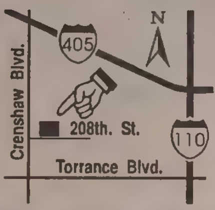

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w/VLB MathCo

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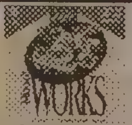

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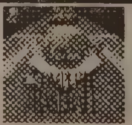

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4X	*ADVENTURER 4X* TEAC 4X CD · SOUND BLASTER 16	1378	1398	1498
4X	*EMPEROR 4.4X-SCSI* TOSHIBA 4.4X SCSI-2 CD-ROM SOUND BLASTER 16 SCSI-2	1528	1548	1648

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4X	*ADVENTURER 4X* TEAC 4X CD · SOUND BLASTER 16	1578	1598	1698
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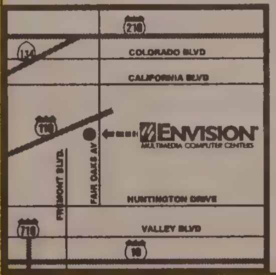

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MultiMedia & BEYOND

For the latest **CD-ROM** and software news & reviews, see our **Product Spotlight** section starting on **page 110**

In This Section:

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  Amiga In Motion
  DraCo Amiga-Based Graphics Workstation; Video Editing 164
- **PaperPort Digitizes The Paper Trail**
  Compact, Affordable Scanner From Visioneer 171

AMIGA

Amiga In Motion

DraCo Amiga-Based Graphics Workstation; Video Editing

This summer, German Amiga-peripherals manufacturer MacroSystem Computer GmbH will ship an Amiga-compatible graphics workstation called "DraCo." DraCo will feature a Motorola 68060 CPU, Fast SCSI II interface, three special 32-bit slots, five Zorro II slots, 3X CD-ROM, 4MB RAM expandable to 128MB, UNIX support, optional DEC Alpha coprocessor, and tower case. One 32-bit slot will be used by a Retina BLT 24-bit video card (included). Users can expect a ten-fold performance increase over an '040/40 A4000 with the DEC Alpha option! DraCo will be distributed in North America by NoahJi's, and is expected to be priced about the same as a comparably equipped Amiga 4000.

AMIGAOS SURVIVES

In a nutshell, DraCo preserves and enhances the best part of the Amiga: its highly efficient preemptive multitasking operating system. What DraCo lacks is the Amiga's custom chip set. However, most Amiga Guideline-compliant hardware and software should work. Currently there is no video slot, so the Video Toaster is out. However, there has been talk about what it would take to make it work.

NONLINEAR VIDEO EDITING

A special DraCo version of VLab Motion, their nonlinear digital video editing product, will really let the card stretch its legs. Full-frame video can be recorded and played back at the highest quality JPEG allows! This will essentially be D1 quality internally, although the external connections will be composite, Y/C, and (probably optional) YUV component.

> In a single second, VLM compresses approximately 27MB of data into 1.2 to 2.5MB.

DraCo's proprietary 32-bit slots will supposedly do 30MB/sec., which far exceeds the capability of any existing hard drive. Furthermore, special effects will be rendered at approaching-real-time speed with the DEC Alpha option.

I expect to be a beta tester for DraCo, so look for some hands-on information on this exciting product.

AMIGA VLAB MOTION

The recent release of the Flyer (with prerelease software) has created a lot of interest in affordable nonlinear video editing. However, this power has already been available on the Amiga for some time using VLab Motion (VLM). Unfortunately, initial versions of the controlling software, MovieShop, were not yet up to par with the capabilities of the hardware, so the product garnered some harsh reviews. Now, however, recent software upgrades are beginning to fulfill the promise of this product.

For a street price of under $1900, you can purchase the VLM card and companion Toccata sound board. You also need a SCSI controller and a fast hard drive with a lot of free space. Forget about needing to buy a TBC for capturing videotape—the circuitry is built right into the card! That savings alone pays for a 1.7GB drive. The total package is considerably cheaper

BY DOUGLAS J NAKAKIHARA

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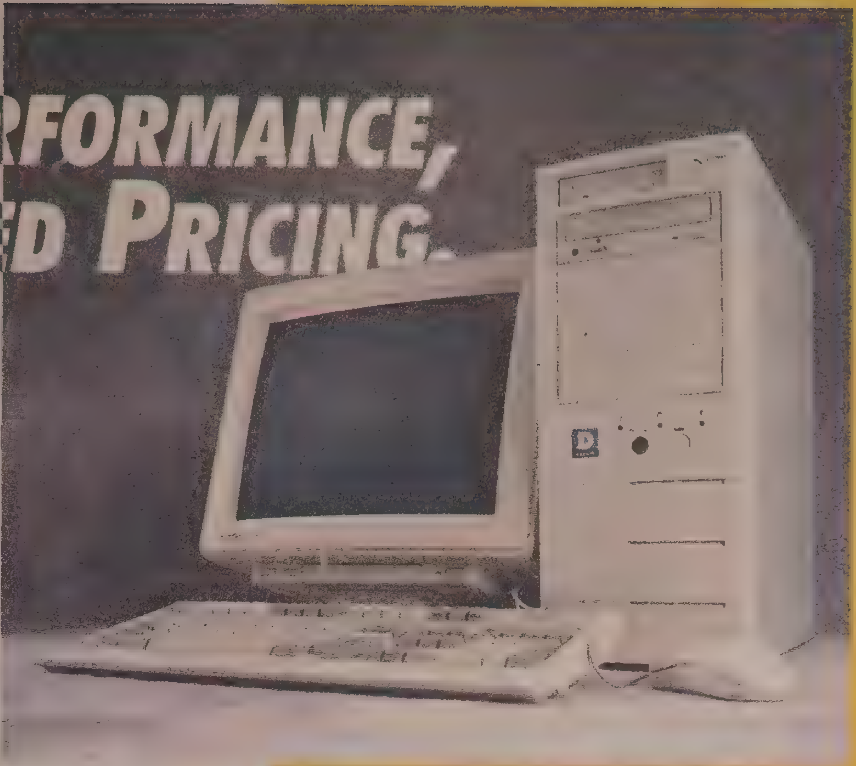

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Using VLM with a Retina 24-bit graphics card will give you more screen room for the interface windows and better looking reference pictures. This makes the program a little easier to use, but doesn't improve performance.

One of the things that separates VLM from other similar products, besides the price, is that the hard drive it uses connects to your normal hard drive interface. You only need to set aside one partition for video and another for audio. You can use the rest of the drive for normal Amiga storage. However, a better setup is to have the audio on a separate drive, which does not have to be particularly fast. Audio also generally uses a lot less storage space, unless you're working on a music video or something that requires multiple channels of audio samples.

SMOOTH RIDE

VLM will run with only 2MB of fast RAM, but 8MB or greater is a more realistic configuration. VLM uses a sophisticated set of dynamic RAM buffers that smooth out the flow of data to and from your hard drive. This helps to eliminate problems caused by peaks in the transfer of data, as well as overcome breaks in the data flow caused by things like drive thermal recalibration.

In a single second, VLM compresses approximately 27MB of data into 0.2 to 2.5MB. Although the compression setting (called the JPEG quality) is static when recording, the compression ratio is dynamic. It is affected greatly by the material being recorded. Video with a lot of detail compresses very poorly. To compensate for this, VLM also features powerful smoothing routines that essentially blur the video based on user-defined parameters, which increases the compression ratio. All in all, VLM provides a high-quality output when playing back digitized video.

MOVIESHOP

Video recording and playback is accomplished using MovieShop's VCR-like controls. The VLM video output looks like it is showing a passed-through video signal, but it is actually the digitized material. You simply click the record button to capture, and click stop to quit. There are also provisions to capture a specific time length or a single frame. Stereo audio is captured simultaneously.

Every time you record something, a new video clip called a "scene" is created. Scenes can be trimmed down and edited using familiar cut-and-paste operations. It is important to understand that scenes are really only playback information that describes how stored video should be played back. Editing operations do not affect the actual data stored on your hard drive—you can make a duplicate of a scene, edit the heck out of it, and still come back to the original state. You can create several versions of the same scene. Audio also always follows the video, though it can be muted.

MAINTAINING ORDER

Scenes can be grouped the same way you group files using subdirectories. You can have groups and individual scenes within groups, limited only by your sanity. Groups can also be played back as if they were a single scene. Because of this, the ordering of scenes within a group is very important. Scene and group names appear in a scrolling vertical list, which can be reordered by just dragging them around with your mouse.

MovieShop incorporates a Time Line interface, but really only uses it to add effects. When you move scenes around on the Time Line, subsequent scenes and effects are not moved forward to take up the freed-up space nor moved over to make room. Therefore, you really want to get your scene play-order straight before anything hits the Time Line.

> *Scenes are really only playback information that describes how stored video should be played back.*

The Time Line runs in two modes. The Easy mode is an A/B roll format, with two input sources and one effects channel. This does the type of things people are now doing with the Video Toaster, though there are much fewer effects. (Of course, there's no reason VLM could not be a video source for a Toaster in a different machine.)

The RPN (Reverse Polish Notation) mode provides the ultimate in power—you can theoretically have up to one thousand combined lines of scenes, audio, and effects! You can easily have many streams of moving video inside their own rotating windows, all composed on another stream of video. Audio from the video clips, background audio, sound effects, etc. is also placed on the Time Line.

Basically RPN (famous because of its use in Hewlett-Packard calculators) is a methodology for processing calculations using data stacks. The learning curve is fairly steep, but once you understand it, the possibilities are endless. Those users unwilling to spend the time to learn the RPN technique can always fall back on the Easy mode, however.

RENDERED EFFECTS

Note that all of the effects must be "rendered" frame by frame. It is like batch processing images with an image processing program (which is also an alternative). Obviously, the faster your machine, the faster the rendering will be completed. However, the process is still pretty quick, especially with multilayered effects.

Video Toaster users may see rendering as a negative; however, the results are superior in quality. Any Toaster effect that involves resizing a video can look pretty ugly. In comparison, VLM's picture-in-picture-type effects are super-clean. Plus you have considerably greater control over placement.

Many of the effects are also motion-capable—they have definable beginning and ending settings, which allow the effect to happen over time. For example, you can gradually turn a video source into a pyramid and then fly it off in any direction you want!

All audio events have envelope control. This allows you to fade audio in and out in any manner you choose. Proper audio envelopes can be pretty important when you have multiple video scenes playing at the same time.

ANIMATION RECORDER

VLM is great for playing back 24-bit animations too. Animation frames can be directly imported using a variety of formats. You can alternatively import video fields for super-smooth animations (assuming your animation program can generate fields). Even ADPro FRED lists can be loaded to presort your animation frames. Once imported, the animation is the same as recorded video, so you can add audio, edit, perform special effects, etc.

Because computer-generated graphics (e.g., LightWave animations) are often highly detailed by nature, JPEG artifacting can be problematic. Thus, if a particular project requires D1-quality output, one solution is to use VLM for previewing and client approvals. Then, you can lay the final frames off to Exabyte tape and have them transferred to whatever medium you need at a post-production house.

AREXX

MovieShop is totally controllable thru ARexx scripts. This makes it perfect for a kiosk situation.

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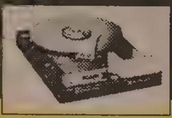

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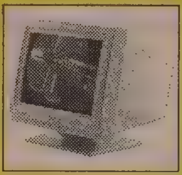

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AMIGA *continued...*

You could have an interactive application running (e.g., VideoStage, Scala, CanDo, Helm, etc.) that plays any clip of video accessible from MovieShop. By running the Amiga RGB signal into a video encoder (NoahJi's sells a inexpensive one) or a genlock, you can connect the output back into VLM. The VLM output then automatically flips between the encoded Amiga interface and video clips.

HOTTEST KEYS

MovieShop also has the best hotkey implementation I have ever seen. You can assign a single command or ARexx script to any key or keystroke combination! ARexx scripts can also be executed from a special menu.

WINDOW MADNESS

MovieShop's modular interface groups functions in many different windows. This can be a bit daunting, but is easily overcome by writing a few simple hotkey-assigned ARexx scripts to create custom "window sets" to suit your needs.

RESOURCES:

VLab Motion, $1750
with Toccata, $2150
with Toccata and Retina Z3 (Zorro III), $2900
with Toccata and Retina Z2 (Zorro II), $2650
NoahJi's
3591 Nyland Way
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LIMITATIONS

There really needs to be a way to have multiple Time Lines that access the same digitized video. This would encourage experimentation. You do have the ability to save a finished movie as a single video clip, but there is no way to get back at the elements that created it, once you subsequently alter the Time Line.

I also wish there was an easy way to insert or remove a scene from the Time Line and have the remaining elements readjust themselves. I realize that the Time Line was not designed to do this, but it would be 1000% more useful if it did. There are plans to add an icon-based Time Line (I'm assuming similar to the Flyer), which may make this type of editing easier.

With respect to audio, you can only import it. They need to add an export feature to allow audio editing using external programs.

If you have a fast SCSI drive and a controller card capable of handling it, the major bottleneck is the 2.5MB/sec. limitation of the Zorro II bus. (A Zorro III version was planned, but dropped due to development of DraCo.) In comparison, products like NewTek's Flyer and DPS's PAR avoid the bus-bottleneck by mounting a proprietary drive controller right on the codec card. This provides higher-quality output because of higher throughput capacity, but is an inherently more expensive design because of the additional circuitry involved.

SUMMARY

If I sound excited about this product, I am. For what it does, it's extremely affordable; also, it is only in its infancy in terms of development. There are a number of things I'd like to see changed and added, but the basic functionality is there. Even in its present state, it is capable of some incredible results! ■

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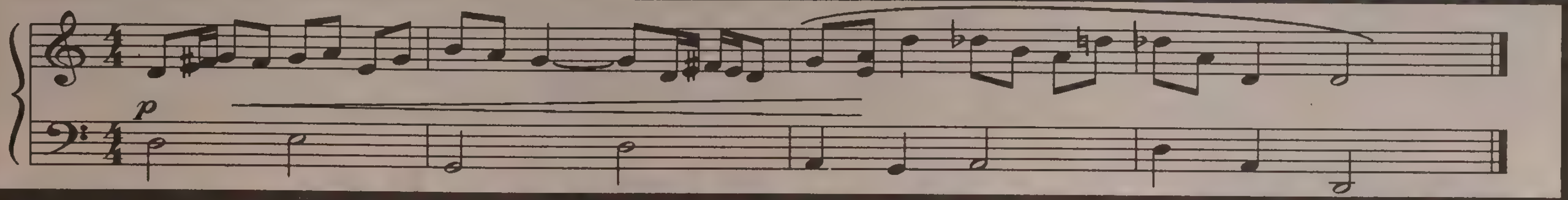

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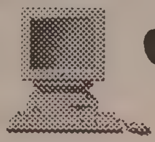

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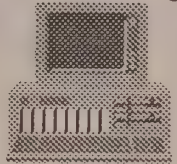

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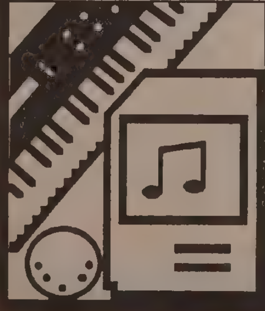

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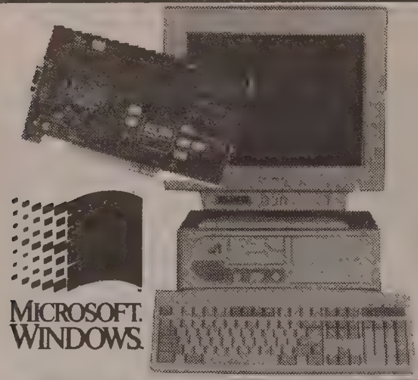

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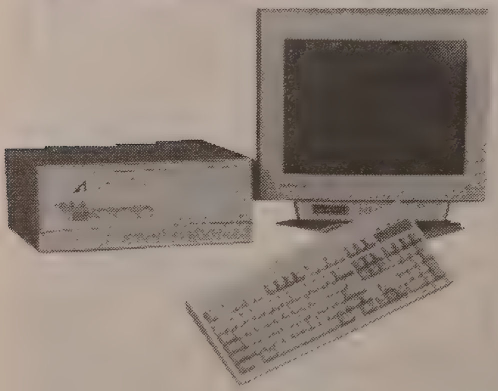

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PaperPort Digitizes The Paper Trail

Compact, Affordable Scanner From Visioneer

BY TONY REVEAUX

For all of us busy workers, advances in personal management productivity are always welcome.

PaperPort for Macintosh (there's already a PaperMax Windows version) from Visioneer Inc. ($399) is a way-neat device that completes the paper-handling loop for communications. A compact 2.5lb. sheet-fed roller scanner, it's about the bulk of a big toner cartridge, 12.5" long by 3.75" high. On the desktop, it only needs three inches of depth, so it can sit at the top of an extended keyboard or between the keyboard and the CPU. The one I use perches on the edge of the CPU of my Macintosh Quadra 650 just under the 14" Apple monitor, looking as natural as if it had grown there.

What's so remarkable about PaperPort is its effortless operation, the quality of its scans, and its document management. It can be seen as part of a next generation of user-friendly "digital appliances"—devices which take a task-action and follow through fully in its intuitive automation. A microswitch senses the paper insert, powers on the unit, launches the application, scans the document, then powers off when the cycle is complete. The new electronic document is then mounted on the PaperPort Desktop on your screen.

COLLAGING THE INFORMATIONAL CONFETTI

PaperPort makes digitizing any piece of paper from 2" x 3" to 8.5" x 30"—sales slip, clip art, shipping label, newspaper clipping, permission slip, theater ticket, summons, flyer, parking ticket, program, prescription, snapshot, ATM receipt, ID card, mileage log, party map, under-the-table note, index card, rsum, filofax page, warranty, cartoon, winning lottery ticket—easy. The paper napkin might jam.

The default resolution is 200dpi (dots per inch), and you can set the input up to 400dpi for fine print. You can also adjust brightness and contrast, halftone for photos, and it has commands for rotation, straightening, cleaning, and trimming the scanned images.

> **Once scanned, the document can be annotated, printed, or faxed.**

Once in, that document can be annotated, printed, or faxed. PaperPort is bundled with Calera's WordScan optical character recognition (OCR) application, to turn that scan or fax into editable text. If you have Caere's OmniPage, that will work too. Then you can choose to send that page by email. If you have a fax modem, then you can fax the PaperPort document as is.

The annotation section is full-featured, with highlight, arrow, text, markup, and sticky notes. Color and line thicknesses can be chosen. Annotations can appear on a fax, but an OCR scan won't see any of the text or notes that you may have added to the PaperPort document. You can scan in a form and fill it in with the text mode, and then print or fax it. Files can be saved in PICT and TIFF for Mac; PCX and BMP for Windows.

SERIAL MONOGAMY

The good news is that, unlike conventional scanners, PaperPort doesn't use a SCSI connection. The bad news is that it doesn't use a SCSI connection. A serial device, PaperPort can connect either to your modem port or your printer port. Problem is, most of us already have those ports filled. The SCSI (Small Computer Serial Interface) path may not always be smooth, and may fall prey to bouts of SCSI voodoo, but you can daisy-chain several devices from one SCSI port on your machine.

Visioneer gamely provides an out. Of sorts. Additional serial ports can be obtained through

continued on page 175

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PAPERPORT

continued from page 171

manual switch boxes, software controlled switches, and serial cards. Included in the package is a discount coupon for a Hustler NuBus Board from Creative Solutions, Inc. of Rockville, MD, for $199, which is $100 less than the "list price." The Hustler adds two high-speed serial ports plus additional mini-DIN ports to your CPU, enabling you to use the PaperPort and print at the same time. But if that's all you'd need the board for, it does hike up the cost by about half again of the PaperPort's price level, pushing the total towards the level of a SCSI-based flatbed scanner of decent quality. (Just browsing the pages of *MacWEEK* you can find a well-regarded Microtek ScanMaker II Color Scanner with 1200dpi, 24-bit color, and 8-bit grayscale, with Adobe Photoshop LE and Caere's OmniPage, for $499.)

If you are a single user and tend to do print runs from time to time rather than printing often throughout the workday, you can simply unplug the PaperPort and plug in the printer. With less and less desk space, if your computer is jammed up against the wall, reaching around back for the right plug without getting a Bride of Frankenstein hairdo may be dicey.

PaperPort can scan a card in a flash. It's so easy that it makes it practical to even consider the job of transferring an entire card collection as a database of digital scans.

As I discovered through Visioneer's helpful customer support, the secret is to take these steps so the devices let go of the computer at the right times: Go to the PaperPort control panel device and select OFF to free up the printer port. Shut down your computer. Switch the serial plugs. Restart your computer. Check the Chooser for printer recognition. When you have finished your print run, select ON in the CDEV, shut down, switch plugs, and then restart.

DEALING THE CARDS

Business cards are more prevalent and important than ever, and it doesn't take long to rack up a stack of them that can overflow your shoebox. I have scanned groups of cards on an Apple Color OneScanner, and of course the resolution was much better than can be obtained on the PaperPort. But most of the work comes when you have to bring that page-size doc-

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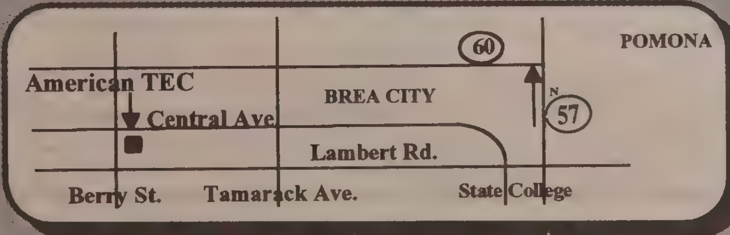

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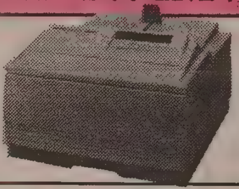

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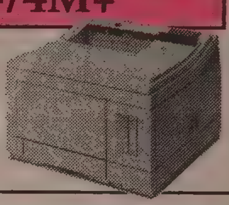

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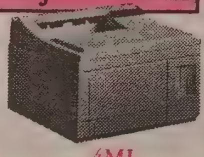

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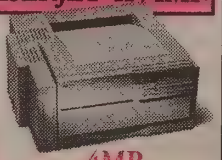

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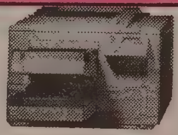

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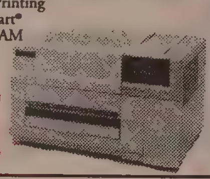

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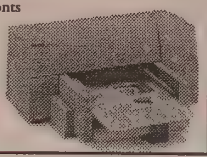

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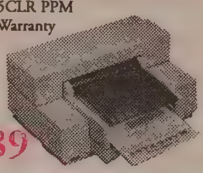

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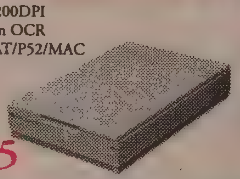

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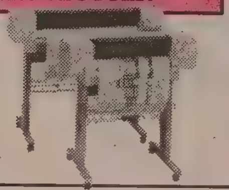

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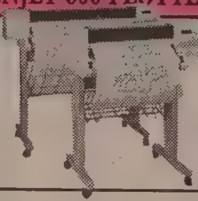

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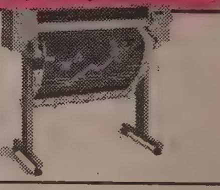

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DoNe With yOur MICROTIMES?

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RecYcle it.

ument into a graphics utility, and then cut out and paste each card image into a separate file. You can selectively scan just the area of the card, but the machine still has to work through a full horizontal scan cycle. It is all a bit of overkill for more than a selected group of cards.

PaperPort can scan a card in a flash. It's so easy that it makes it practical to even consider the job of transferring an entire card collection as a database of digital scans. PaperPort reduces the labor of so many parts of the paper chase that it makes you directly confront the essence of your personal work style. What many people do to organize a card file for better accessibility is to keyboard the information from each card into a contact management program like Now Contact 1.1 or TouchBase Pro 4.0, or a flat file database like FileMaker Pro 2.1, or linked as in HyperCard 2.2. But perhaps you hate to type any more than you must, or you really prefer to retain the characters of the cards.

It's very quick to pass a card through PaperPort, blow it up to double the normal size for easier reading, paste it into a HyperCard stack, and type in keywords. Though PaperPort has a neat stacking feature for its image management, these are not searchable by page. When you have transformed your business card file to a HyperCard stack, you are then free to integrate into it anything that can be scanned, including rolodex cards, address labels, and graphics such as logos and maps.

What you give up in a graphic database is the complete full-text searchability you have in a text-based system. OCR may work on some business cards, but all too often graphic and type designs defeat even the best OCR utility. Many designers don't even check for legibility when a card is photocopied.

Which system is better? Whatever best fits your personal work style.

As you might suspect, the PaperPort has already become a favorite sidekick on the PowerBook trails. According to the company, a battery-powered unit may be available within a year, and a color version somewhat later.

IMAGE ENHANCEMENT

Remember—if you get a PaperPort, you've got a scanner. It may not be a flatbed or the highest resolution scanner, but scan is as scan does. To help you coax and tweak the most of graphic uses and desktop applications out of your device, refer to books on scanning and image manipulation.

Clip Art—Image Enhancement & Integration by Gary Glover ($22.95, Windcrest/McGraw- Hill) is a good source for this kind of information. It is written for the Windows user, providing a lot of the finer details and extra points for enhancing and repurposing your scanned-in images no matter what your platform. ■

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RESOURCES:

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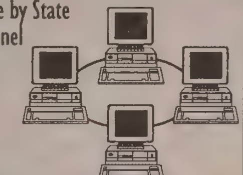

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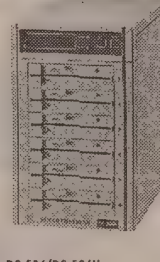

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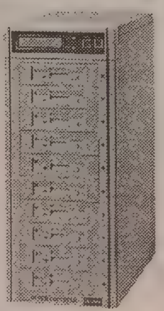

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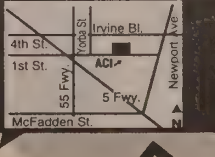

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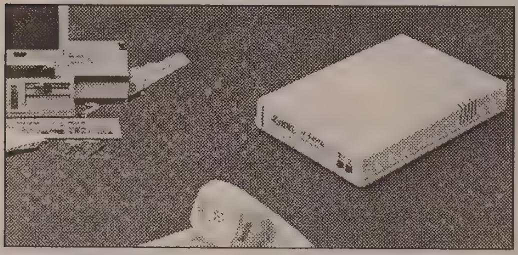

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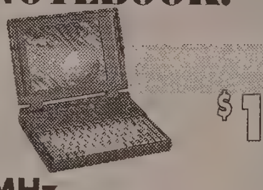

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Computer Shopper — July 1993, ZyXel U-1496E Plus, ZyXel U-1496 Plus Enhanced, Top 10 List

Boardwatch Magazine — November 1992, ZyXel U-1496, ZyXel U-1496E

Winter 1992, ZyXel U-1496, Awarded 5 NeXTWORLD Cubes

200 Top Rated — June 1993, ZyXEL U-1496

Network World — May 10, 1993, ZyXEL U-1496E

Byte — ZyXEL U-1496E Plus

Byte — ZyXEL U-1496E

PC Digest Ratings Report — May 1993, ZyXEL U-1496, ZyXEL U-1496E

PC Magazine Editor's Choice — June 29, 1993, ZyXEL U-1496E Plus

PC Professionell Empfehlung der Redaktion — February, 1993, ZyXEL U-1496E Plus

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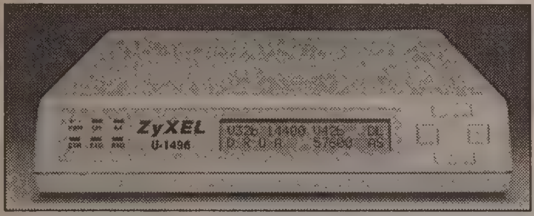

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- Front panel 20x2 LCD Display and Menu Control
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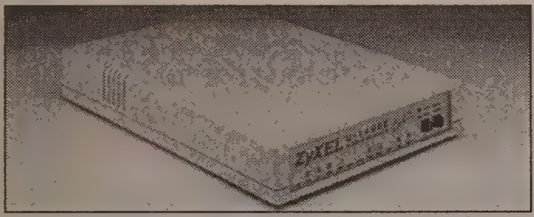

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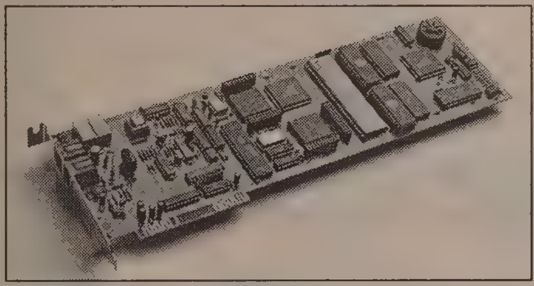

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- Includes the 16550 UART Chip

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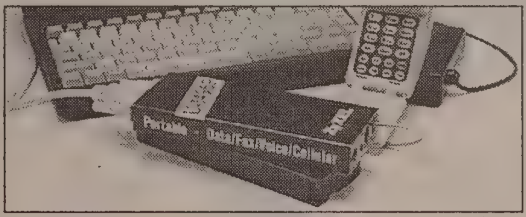

U-1496P - Rugged Portable/Cellular Modem

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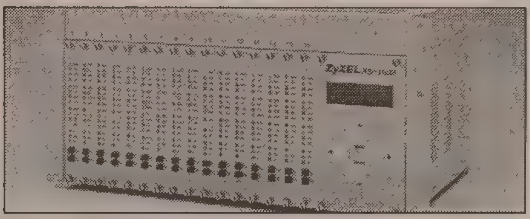

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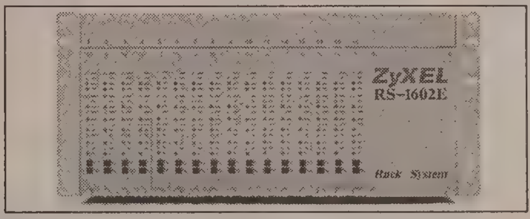

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- Permits Hot-Swapping of Modem Cards
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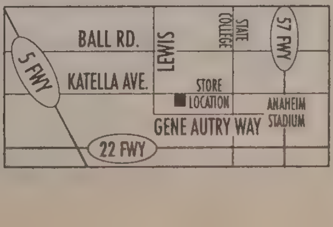

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- 101 Enhanced Keyboard
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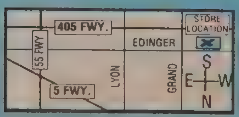

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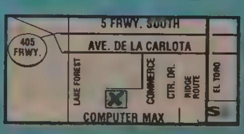

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Fantasies *continued from page 30*

D-Day, Defending Freedom

On a weekend around the first of June, Goen began uploading complete PGP to systems around the US. He called several times, telling me his progress.

He was driving around the Bay Area with a laptop, acoustic coupler, and a cellular phone. He would stop at a pay phone, upload a number of copies for a few minutes, then disconnect and rush off to another phone miles away.

He said he wanted to get as many copies scattered as widely as possible around the nation before the government could get an injunction and stop him.

I thought he was being rather paranoid. In light of the following, perhaps he was just being realistic.

Government Counterattacks

About two years after the PGP uploads, the government began threatening to prosecute Zimmermann for illegal trafficking in munitions—cryptography. For almost two years, they have been investigating whether he "exported" PGP. It appears at press time that they will probably prosecute him.

The allegation seems to be that, since he permitted someone else—over whom he had no control, anyway—to upload PGP to some Internet hosts *inside* the United States, Zimmermann thus exported this controlled munition!

This ignores the fact that most of those same Internet hosts also have DES crypto software from AT&T, Sun, SCO, and BSD, part of their standard domestic UNIX systems. The DES is under the same export prohibition as PGP. The same is true for RSA's public-key crypto tools that reside on thousands of Internet hosts around the nation.

This bizarre lunacy also ignores that public-key was published, worldwide, fifteen years ago, and is available from numerous foreign software competitors including entrepreneurs in former Easter Bloc countries—as is the DES.

Based on what they told me at the time and everything I've learned since then:

•Zimmermann never even uploaded PGP files for public access.

•Goen studiously limited his uploads to US systems, as permitted by law and routinely done with identically regulated AT&T and RSA software.

•They certainly didn't care about exporting PGP. Hell, most of the rest of the world already purchases public-key products from numerous vendors *except* US companies.

They *did* want to preempt S. 266 before it became law—just as millions of people do all the time regarding all sorts of pending legislation. And the offending mandate was later deleted from S. 266, anyway.

Zimmermann and Goen wanted to protect this nation's citizens. S. 266 wasn't threatening other nation's citizens; it was threatening Americans!

Why The Persecution?

Some apologists say the government is just trying to clarify the law. *Bull!*

If that's what they want, they should investigate and prosecute AT&T or Sun or SCO or RSA. Each makes millions peddling systems to US Internet host owners that include identically controlled crypto modules, particularly including RSA public-key packages that are at least as powerful as PGP.

But thugs don't pick on targets that can defend themselves. Goons go for the frail and weak and helpless—like Phil Zimmermann.

Maybe this is a rogue prosecutor trying to make a name for himself. But apparently Keane can't seek a grand jury indictment for this "crime" without clearance from the Department of Justice in Washington.

Maybe it's just our government wasting thousands of staff hours and millions of dollars to publicly flog Zimmermann as a lesson to any other pissant citizen who dares to do what AT&T, Sun, and RSA can do with impunity.

This appears to be nothing less than an arrogant, oppressive government

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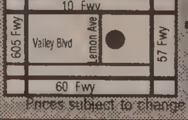

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Fantasies *continued*

using all of its might and all of its power to flail and torture one poor citizen, to teach him that he is dirt and intimidate everyone else.

Is this what our nation has become? Is this the America we want?

Coincidental Subpoena?

As a footnote, I must say that my initial assumption was that the agents' arrival two days after my op-ed piece appeared was simply coincidental—that they were just now getting around to tying up loose ends of this wasteful multiyear investigation. They said they were responding to a letter I had sent to the grand jury a year or two earlier, when I first heard they were investigating Zimmermann.

As I write this, and try to maintain some slight semblance of reason, about half the time I think the timing was accidental—and half the time I think I'm being naive.

A Frightening Experience

But I gotta tell ya, I awakened hours before dawn this morning, wondering if somehow I was going to be the next victim of this governmental obscenity. The government's stated policy is to attack opponents with overpowering force. They are certainly doing that to Zimmermann.

I feel threatened and intimidated—and furious and outraged that it should be happening in MY nation, prosecuted by MY government.

I cry for what Phil Zimmermann must be going through. He had little financial resources to begin with; this has already cost him, dearly. For almost two years, he has been under the horrifying threat of wasting all of his assets including his home, just to defend himself against the outrageous abuse of a federal government that will go to any expense to *"win."*

And if Zimmermann loses, he goes to prison for years of *mandatory* incarceration. When he comes out, his young daughter will be a teenager. All because he dared to write a cryptographic program that the government couldn't crack, that someone else made available to US citizens.

Is this what our nation has become? Is this the America we want?

If there is any justice remaining in this nation, this screams out for immediate redress!

Folks who care can send *much*-needed donations to the Zimmermann legal defense fund in care of his attorney, Phil DuBois, 2305 Broadway, Boulder, CO 80304; (303)444-3885; *dubois@csn.org*. ■

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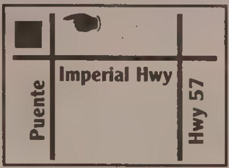

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RSA Data Security Conference

continued from page 44

level of our national government, a circulation of what are in rather placating terms described as merely "guidelines" and not "regulations," it's a significant omen that there are people in positions of power who are determined to extend that activity. They want to make sure that the day comes when it can be formally recognized as part of the police power of the state. I think we ought therefore to pay special attention to matters of that kind when they are brought to our attention.

If we are going to engage in that kind of activity, we need not only oversight by the appropriate committees of Congress, but we need enabling and authorizing legislation before we take a giant step in the direction of saying that we are going to diminish the privacy aspect of the national information infrastructure of the information highway to that extent.

In closing, I would simply say this, that there are a lot of folks out there that are for data protection. If forty-seven thousand signatures could be assembled quickly on an electronic petition opposing the Clipper chip, it shows the vast resources that are available. There are vast resources available if we are knit together in a cohesive community, in a body of men and women who are sufficently interested and activated to move on what we deem to be threats to privacy. We can make our voices heard.

I frankly think that it would be a good idea to have a politically independent commission or body or board that would be made up of distinguished members of the private sector, with the power only to hold hearings and for the purpose of publicizing these incremental moves that come from time to time that otherwise are apt to go unnoticed.

I don't want another government regulatory agency, far from it. Quite to the contrary. I think the more that the public comes to understand the kind of issues that we have discussed this morning, the more that takes place, we can be assured that we will have the "participatory dialogue on self-government," the words of the Speaker with which I began the talk this morning.

And that, my friends, is the kind of revolution that I would like to see, the kind of revolution that would strengthen the sinews of our democracy and bring truly meaningful change. ■

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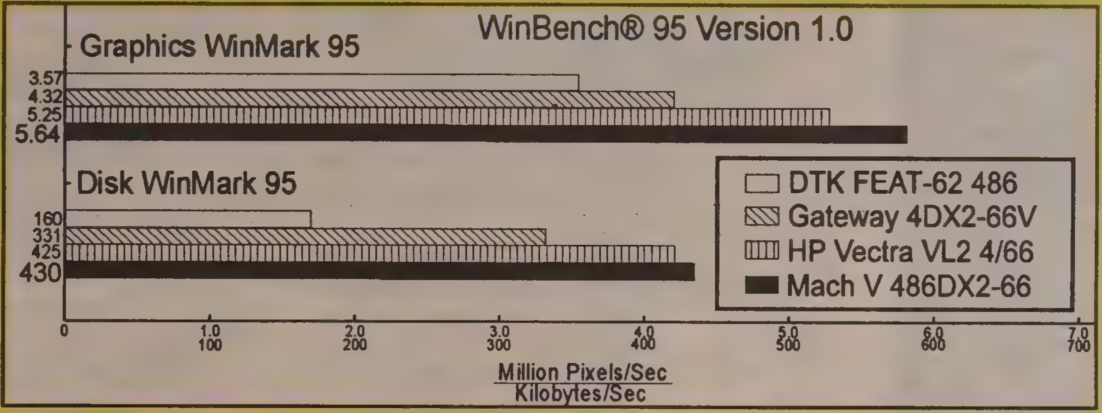

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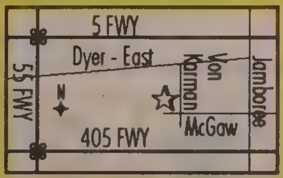

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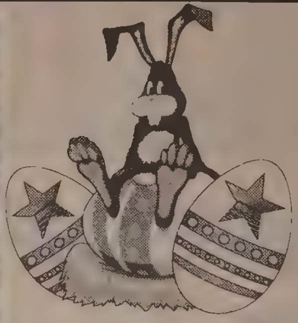

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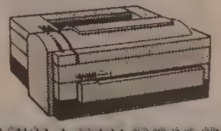

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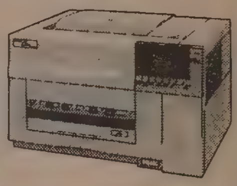

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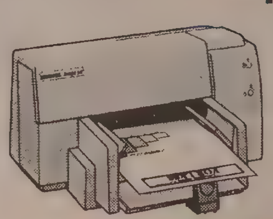

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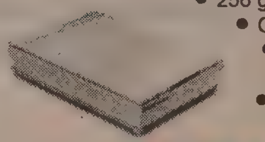

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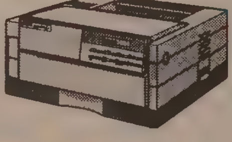

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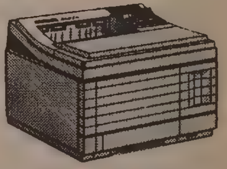

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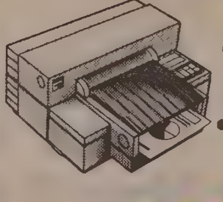

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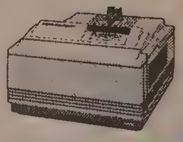

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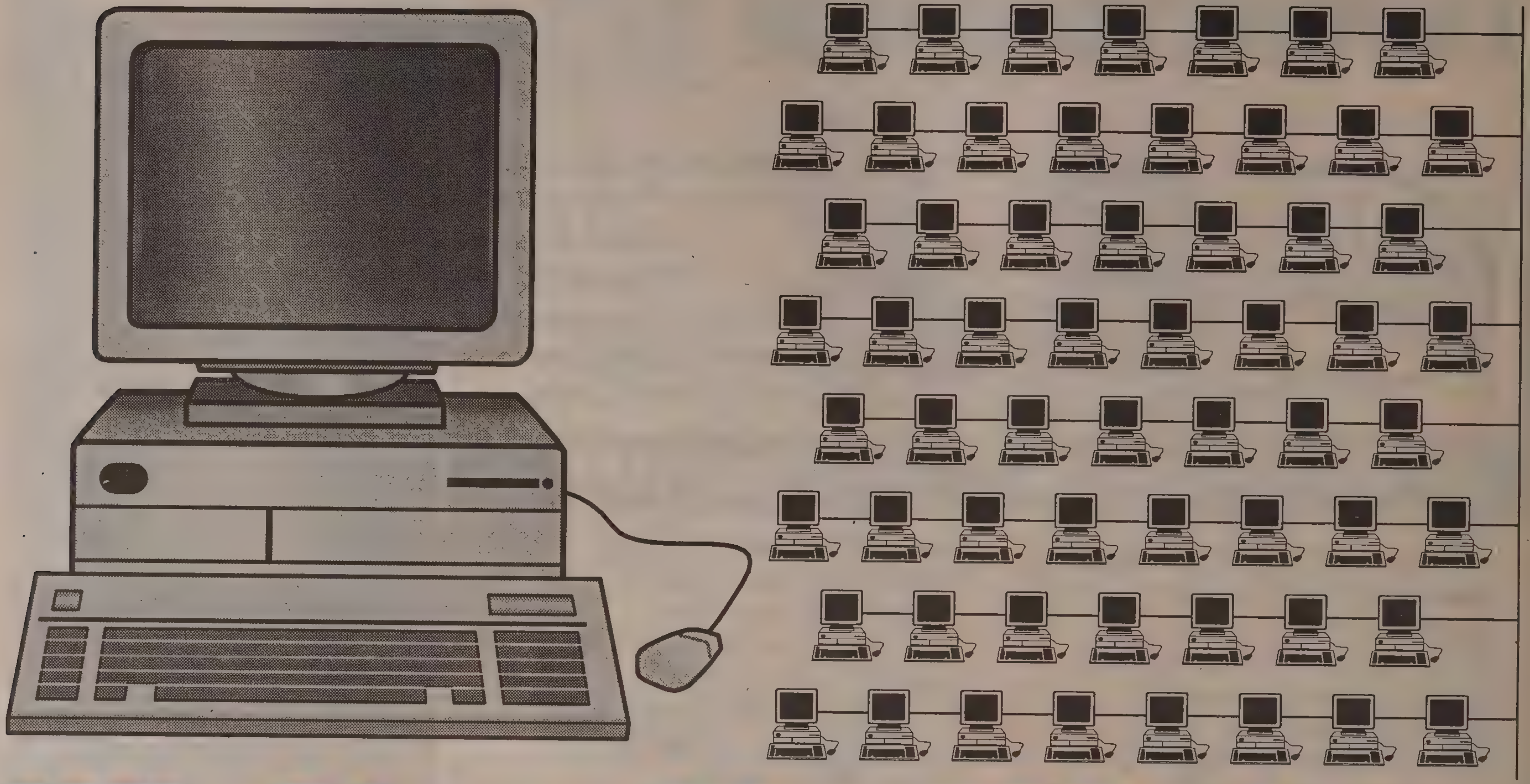

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Security On The Internet *continued from page 103*

a neighborhood watch group against graffiti vandals and is, to my mind, an exemplary demonstration of good cyber-citizenship.

No Guarantees

Unfortunately, the arrest of Mitnick is no guarantee that all is now well in cyberspace, and this leads us to what is perhaps the most important issue underlying this case: the security of computer and telephone networks.

The intruder's attack on the WELL and other computer systems on the Internet required only a modicum of skill to execute. The techniques that were used to break into these systems are well known to computer security experts and anyone else with an interest in such things. It's a good bet that there are others with the skills and knowledge required to repeat this mischief.

The simple fact is that the open nature of the computer technology that has fostered the remarkable growth of the Internet also makes it vulnerable. When everyone knows how the technology works, it's easy to use and to build upon, and it's also easy to subvert. Openness is a double-edged sword.

But keeping the inner workings of the technology secret—security through obscurity—is not the answer. Secrecy tends to impede technological development, and in the long run it simply doesn't work. Secrets never remain so for long, and again, Mitnick helps prove the point. His ability to manipulate the public telephone system has been well documented, despite the fact that telephone companies don't widely disseminate their sensitive technical information.

The inescapable conclusion is that all of these networks—computer, telephone, cell phone, all of them—are fundamentally insecure and unsecurable. Unsecurable, that is, unless we consider something called cryptography.

Cryptography And Data Security

Literally "the science of secret writing," cryptography can be used to "scramble" information—the text of an electronic mail message or the voices of a phone conversation—so that only the intended recipient can understand it.

Once strictly the province of spies, government security agencies, and the military, cryptography has seen increasing use in sensitive commercial applications such as electronic funds transfer in banking. Recent theoretical developments in the field have yielded cryptographic codes that are, for all practical purposes, unbreakable. And because information moves across computer and telephone networks digitally—in the form of numbers—the numerical techniques of cryptography mesh nicely with the information it protects.

The greatest irony in this case is that, while the government is spending its time and resources pursuing Mitnick and his ilk, it is also actively suppressing the technology that could have made his forays much more difficult or even impossible. While government sings the praises of the nation-

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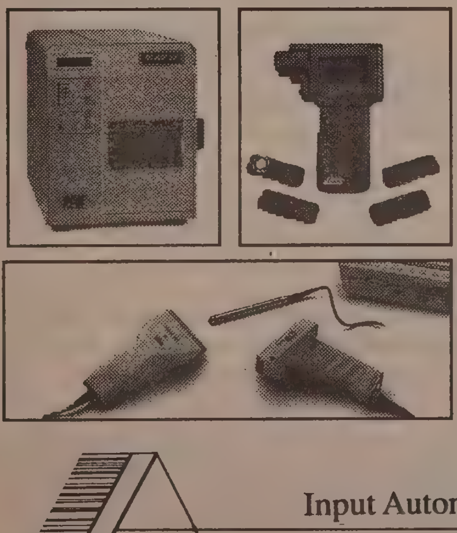

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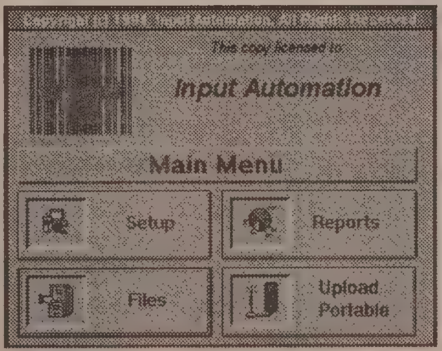

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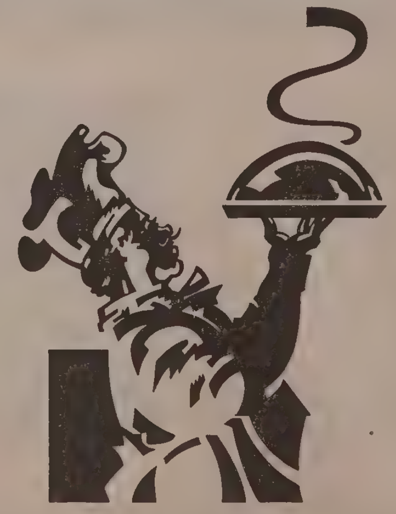

Security On The Internet *continued...*

al and global information infrastructure, and its potential to drive our economy well into the next century, it discourages commercial development of the only technology that can guarantee the security essential for the growth of commerce on the Net.

And why is our government doing this? Because it is afraid that the widespread use of unbreakable cryptography would eliminate its ability to listen to our phone conversations or read our electronic mail, even in the face of a compelling need to do so.

How is our government doing this? Primarily through the International Traffic in Arms (ITAR) regulations which classify cryptographic technologies as "munitions"—like hand grenades or machine guns—and place strict controls on their export, effectively discouraging the development of commercial products using secure cryptography.

Standardized cryptographic capabilities built into our computer and telephone networks could eliminate many of their security problems; but at what cost? Government spokespeople often cite hypothetical examples of terrorists and kidnappers in arguments for maintaining their ability to listen in when they feel they must, but these claims often seem overblown. There is certainly a basis in law for the application of wiretaps when the proper search warrants are issued, but there is as yet no law mandating limits on technological advances that may render wiretaps moot. Indeed, some experts think such a law would be a dangerous precedent.

As in any application of technology, the answers lie in a careful assessment of its risks and benefits. There are arguments on both sides of these complex issues. Many will be raised in discussions at the upcoming CFP conference.

The most important impact of the case of the Internet intruder may be the extent to which it increases public awareness of the security problems in computer and telephone networks and the potential for solving them with the laws of physics and mathematics, and not with laws made by Congress.■

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Additional information about the Computers, Freedom, and Privacy Conference (28–31 March 1991, Burlingame, CA) may be obtained by calling (415)548-9673 or on the Internet at: Info.CFP95@forsythe.stanford.edu.

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F550iW	15"	.28	1280 X 1024	949
T217	17"	.25	1600 X 1200	1299
F560iW	17"	.28	1280 X 1024	1199
T560i	17"	.25	1280 X 1024	1399
T660i	20"	.28	1280 X 1024	1949
F760iW	21"	.31	1280 X 1024	1849
F780iW	21"	.26	1600 X 1280	3099
T220	20"	.30	1600 X 1200	1999

MAG INNOVISION

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MX 15	15"	.28	1280 X 1024	$425
DX 15FG	15"	.28	1280 X 1024	325
MXP 17	17"	.26	1600 X 1280	899
MX 17FG	17"	.26	1280 X 1024	799
DX 17F	17"	.26	1280 X 1024	649
MX 21F	21"	.28	1600 X 1280	1699

VIEW SONIC

Model	Size	Type	Dot pitch	Resolution	Price
4E	14"	Super VGA	.28	1024 X 768	$289
6E	14"	Super VGA NI	.28	1024 X 768	299
14E	14"	Super VGA NI	.28	1024 X 768 70Hz	349
15E	15"	Flat Screen NI	.28	76Hz refresh	389
15EX	15"	Flat Screen NI	.28	1280 x 1024	445
17E	17"	Digital Multi-Freq.	.28	1280 x 1024	725
17G	17"	Digital Multi-Freq.	.28	1600 x 1280	749
15	15"	Digital Multi-Freq.	.28	1280 x 1024	455
17	17"	Digital Multi-Freq.	.28	1600 x 1280	829
20	20"	Digital Multi-Freq.	.28	1600 x 1280	1499
21	21"	Digital Multi-Freq.	.28	1600 x 1280	1649

NEC

Model	Price
3V 15" Multi-Freq Green EPA .28	$449
3FGe 15" Color Monitor .28 1024 x 768	575
4FGe 15" Multi-Freq .28 1024 x 768	650
5FG 17" Multi-Freq .28 1024 x 768	1099
17XE 17" Multi-Freq. .28 1024 X 768	975
21XE 17" Multi-Freq .28 1024 X 768	2049

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Atlas Pentium PCI 90	1099
Excaliber Pentium EISA/PCI 60	949
Excaliber Pentium PCI 60MHz	649
Excaliber Pentium VLB 60MHz (No CPU)	299
Enterprise IV 486DX2-66MHz EISA VLB	599
Enterprise IV 486DX-50MHz EISA VLB	699
Enterprise IV 486DX-33MHz EISA VLB	575
Super Voyager III 486DX4-100MHz	599
Super Voyager III 486DX2-66MHz VLB	549
Super Voyager III 486DX-33MHz VLB	499
Super Voyager III 486SX-33MHz VLB	399
Super Voyager III 486SX-25MHz VLB	339

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M54Pe Pentium 90	1199
M4Pi 486PCI/NoCPU	299
JX WB 486VLB/No CPU	279
LX30 486VLB	199
EV3 486EISA VLB/No CPU	399

AIR

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Board	Price
486 VLB	$149
486 VLB/EISA	349
Pentium 90 ISA/EISA/PCI	CALL
Dual Pentium EISA/PCI SCSI II Wide-IDO-I/O	1599

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Board	Price
Dual PENTIUM 90/100 PCI/EISA	$1299/1599
PENTIUM 90/100 PCI/EISA/VL	CALL
486 ISA/EISA/VL	CALL

ASUS

Board	Price
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PENTIUM ISA/PCI 90/100	CALL
486DX2-66 ISA/PCI	$399

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HARD DRIVES

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2217A 1.7GB IDE	599
4221 2.0GB SCSI II	909
1936 3.0GB SCSI II	1049
3243 4.0GB SCSI II	1899
1991 9.0GB SCSI II	2949

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540MV 540MB IDE	$195
1240S 1.2GB SCSI	549

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2540 540MB IDE	219
31000 1.0GB IDE	369

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ST-12400N 2.0GB SCSI	825
ST-32550N 2.1GB SCSI N/W	975/1099
ST-15150N 4.0GB SCSI N/W	1599/1699
ST-410800 9.0GB SCSI N/W	2979/3175

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Item	Price
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300W TURBO-COOL	179
450W TURBO-COOL	329

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AMI FASTDISK	EISA / CACHING	$399
AMI FASTDISK	EISA / NON-CACHING	219
AMI FASTDISK	VLB 32Bit CACHE	399
AMI FASTLAN	SCSI II / ETHERNET	425
AMI FASTLAN	ETHERNET	329
MYLEX DCE	EISA / SCSI II CACHING	449
MYLEX LNE	EISA / ETHERNET	299
ADAPTEC	2742 EISA / SCSI II	375
ADAPTEC	1542B ISA / SCSI II	259
PROMISE	VLB IDE / CACHING	125
ADAPTEC (PCI)	2940/2940W	229/299

VIDEO ADAPTORS

DIAMOND Computer Systems, Inc.

Adaptor	Price
SPEED STAR PRO VLB	$109
SPEED STAR 64 PCI	145
STEALTH 24 VLB/ISA w/1MB	155
STEALTH 64 VLB/PCI 2MB/4MB	279/449
Viper VLB/PCI 2MB	279

ORCHID

Adaptor	Price
BRAND NEW KELVIN 64 VLB/PCI 1/2MB	$149/199
BRAND NEW KELVIN E-Z VLB/PCI 1/2MB	109/149

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Adaptor	Price
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Ultra Plus Turbo 64 VLB/PCI 2/4MB	249/449
Ultra Plus/Pro 32 VLB/PCI 2MB	199/249
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Resources

Calendar Of Events

Conferences, Shows, Special Events

April

April 1 L.A.S.F.S. Virtual Reality Showcase. North Hollywood. *StarQuest* Magazine. Call: (818)764-8494.

April 1–2 American Computer Mega Show. CSU, Northridge. American Mega Shows. Call: (818)961-3782.

April 1–2 Computer Super Show. Riverside Convention Center. Super Show Productions. Call: 1-800-459-6105.

April 1–2 Mall Computer Show And Sale. Santa Fe Springs Mall. Derek M. Borthwick Show Productions. Call: (818)913-4046.

April 2 Computer Show And Sale. Oxnard Community Center. MarketPro Shows. Call: 1-800-708-7555.

April 6–7 Digital Publishing Symposium. New York City. Institute for International Research. Call: 1-800-345-8016.

April 6–7 Technology Marketplace '95. San Francisco. *Advertising Age's Business Marketing.* Call: 1-800-243-3238.

April 8 Computer Show And Sale. Fresno Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

April 8–9 Computer Marketplace Show. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

April 9 Computer Show And Sale. Antelope Valley Fairgrounds, Lancaster. MarketPro Shows. Call: 1-800-708-7555.

April 9 NOCCC Computer Fair And Swap Meet. Anaheim Marketplace. North Orange County Computer Club. Call: (714)521-6915.

April 10–13 Internet World 95 Conference And Expo. San Jose. Mecklermedia. Call: 1-800-632-5537 or email: *iwconf@mecklermedia.com* .

April 13 Apple Server Solutions Expo. Long Beach. Apple Computer. Call: 1-800-283-9889.

April 15 Computer Show And Sale. Scottish Rite Center, San Diego. MarketPro Shows. Call: 1-800-708-7555.

April 15 Computer Show And Sale Expo. Panorama City. Bonanza Show Productions. Call: Paul Escalante, (415)595-1053.

April 15 Computer Super Show. Glendale Civic Auditorium. Super Show Productions. Call: 1-800-459-6105.

April 15 The Anaheim Computer Show. Anaheim Stadium. Robert Austin Corp. Call: Jim Lavezzo, (415)347-0100.

April 15–16 American Computer Mega Show. Carson Center, South Bay. American Mega Shows. Call: (818)961-3782.

April 18–21 Fifth Conference On Interactive Marketing. New Orleans, LA. CBS. Call: (310)798-0433 or *Intmkting@aol.com* .

April 18–21 Folio:West Conference And Expo. Los Angeles. *Folio:* magazine. Call: 1-800-927-5007.

April 22–23 Computer And Electronics Expo '95. Los Angeles Convention Center. Advertising Concepts Productions. Call: (805)491-2183.

April 22–23 Computer Show And Sale. Ventura Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

April 22–23 Hollywood Park Convention And Casino—Computer Super Show. Hollywood Park. Super Show Productions. Call: 1-800-459-6105.

April 24–26 DISA's EC/EDI Conference And Exhibit. Seattle. Data Interchange Standards Association. Call: Patricia M. Curran, (703)548-7005.

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APRIL 8–9

COMPUTER MARKETPLACE

FAIRPLEX EXPO CENTER, POMONA

Computer Marketplace brings the latest innovations in computer technology to the public. Hundreds of computer retailers and businesses demonstrate their products and serve your needs. The huge inventory includes multimedia systems, notebook computers, modems, CD-ROM drives, printers, scanners, sound cards, software, accessories, and more—all at low, wholesale prices. In two buildings at the Fairplex Expo Center, Computer Marketplace is open from 10 am to 5 pm. Admission is $7 and parking is $4. Call 1-800-800-5600 for more information.

APRIL 22–23

COMPUTER & ELECTRONICS EXPO '95

LOS ANGELES CONVENTION CENTER

Over five hundred vendors and manufacturers will be selling products at low clearance prices and demonstrating new technology for the Mac and PCs at the Computer & Electronics Expo '95. Complete systems, components, software, printers, memory, stereo equipment, and video equipment will all be available. In addition, there will be free hourly seminars given by IBM, Pacific Bell, Novell, and New Horizons Learning Center on topics including Surfing the Internet, OS/2 Warp, LAN Distance, Digital Dial-Up, What Is the Web?, Home Office Support, Telecomputing, Novell's PerfectOffice 3.0, Fax Systems and Printers, and more. Show hours are 9 am to 9 pm Saturday and 9 am to 6 pm Sunday, and admission is $6.50 for adults, $5 for seniors, and children twelve and under are free. Call (805)491-2183 for more info.

APRIL 29–30

COMPUTER SHOW AND SALE EXPO

CAL STATE NORTHRIDGE

The original management of the Cal State Northridge/Devonshire Downs Computer Show and Sale Expo has teamed up with Bonanza Show Productions to bring their show back to the college, at 18000 Devonshire Blvd. There will be millions of dollars of state-of-the-art computer merchandise under one roof at below wholesale prices. Everything from CD-ROMs, software, hardware, memory, peripherals, printers, and more. Admission is $6 and all display ads have a $1 discount coupon. Children twelve and under are free. For more information call (415)595-1053.

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Computer Trade Show
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There is no other place where you can find such a huge inventory of computer products all under one roof AND at low, wholesale prices! Hundreds of knowledgeable computer retailers and businesses each demonstrating their products and paying close attention to your needs.

April 8 & 9
Saturday & Sunday
POMONA Fairplex (LA Fairgrounds)
Exit Highway 10 at Fairplex Drive. Go north to McKinley Avenue, turn right.
Turn left on White Avenue to Gate 14.

May 6
Saturday
SANTA BARBARA Earl Warren Showgrounds
Take Highway 101 to the Las Positas Exit. Follow the signs to the fairgrounds.

May 13 & 14
Saturday & Sunday
POMONA Fairplex (LA Fairgrounds)

June 3 & 4
Saturday & Sunday
POMONA Fairplex (LA Fairgrounds)

June 10
Saturday
RESEDA Sherman Square Entertainment Center
From the 101 Freeway take the Reseda offramp, turn left (east) to Sherman Way
and turn right. Go one block to Canby Street. 18430 Sherman Way.

June 11
Sunday
BUENA PARK Sequoia Conference Center
Take the Beach Blvd. exit off the 91 Freeway. Go one block north
to 7530 Orangethorpe.

June 24 & 25
Saturday & Sunday
POMONA Fairplex (LA Fairgrounds)

July 8
Saturday
RESEDA Sherman Square Entertainment Center

July 9
Sunday
BUENA PARK Sequoia Conference Center

All Shows
Open to the Public
10:00 A.M. TO 5:00 P.M.

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Apple

PACIFIC BELL

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April 22-23

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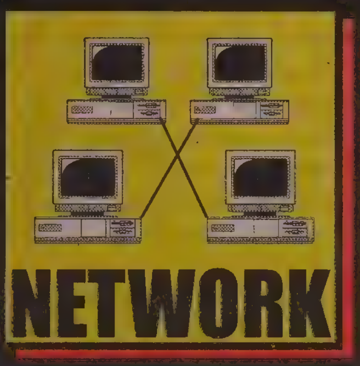

Super
Highway
INTERNET

Saturday, April, 22

10am	**Claris Works:** Multimedia Databases using "Filemaker Pro". Speaker: Brian Ross of Sarcen Communications.
11am	**New Horizons Learning Center:** "Moving From The High Rise To Your Home". A look at homebased and small business applications needs. Speaker : Barbara Andrews.
Noon	**Novell's WordPerfect Applications Group Presents:** "PerfectOffice 3.0" For home office applications.
1pm	**New Horizons Computer Learning Centers:** "Spreadsheets & Their Applications" Speaker: Barbara Andrews
2pm	**Apple Macintosh:** "Power To Be Your Best, At Whatever You Choose To Be". Easily organizing your home finances, effectively managing a home / small business, and becoming a part of the Internet revolution. Speaker: Jim O'Leary
3pm	**IBM Presents:** "OS/2 WARP" Maximizing memory, multitasking. Accessing the Internet using OS/2 WARP. Enhancing your total computer environment.
4pm	**Hewlett Packard Presents:** "Home Office Scanners, The New CX-3, It's uses and Applications For Multimedia In The Home".
5pm	**Novell's WordPerfect Applications Group Presents:** "PerfectOffice 3.0". For Home office applications.
6pm	**Quarterdeck Office Systems Presents:** "QEMM, Your Memory Management Comes Home"! Speaker: Gary Saxer.
7pm	**Hewlett Packard Presents:** "Fax Systems & Printers". The DeskJet Multifunction Fax/Scanner/Printer/Copier System.

Sunday, April 23

10am	**IBM Presents:** "OS/2 WARP". Maximizing memory, multitasking. Accessing the Internet using OS/2 WARP. Enhancing your total computing environment.
11am	**Apple Macintosh:** "Power To Be Your Best, At Whatever You Choose To Be". Preparing your children for careers in the 21st century, easily organizing your home/small business and becoming a part of the Internet revolution. Speaker: Jim O'Leary
Noon	**Pacific Bell Presents:** "Home ISDN". The power of digital communication comes home.
1pm	**Internet Education Presents:** "What is the Internet & How To Use It".
2pm	**Pacific Bell Presents:** "Telecomuting & Modems". Showing you how you can be more efficient and environmentally sound with telecomuting.
3pm	**IBM Presents:** "Networking From Home Through LAN Distance". IBM will show you how easy and powerful it is to use IBM's LAN Distance.
4pm	**The Queen Presents:** "Queen Mary Ham Radio at Work". A slide presentation.

The Network Professional Association, Ventura Chapter, Network Labs will be available for free hands-on sessions in the Network Pavilion area both days of the show. These free sessions will consist of remote telecomuting, Internet Access and Networking in general.

Sponsored In Part By:

L.A. ONLINE

Show Hours: Saturday 9am to 8pm - Sunday 9am to 6pm

Calendar Of Events

continued from page 194

April 29–30 American Computer Mega Show. CSU, Long Beach. American Mega Shows. Call: (818)961-3782.

April 29–30 Computer Show And Sale. Del Mar Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

April 29–30 Computer Show And Sale Expo. CSU, Northridge. Bonanza Show Productions. Call: Paul, (415)595-1053.

April 29–30 Mall Computer Show And Sale. Whitwood Mall, Whittier. Derek M. Borthwick Show Productions. Call: (818)913-4046.

May

May 6 Computer Marketplace Show. Earl Warren Showgrounds, Santa Barbara. National Productions. Call: 1-800-800-5600.

May 6–7 American Computer Mega Show. CSU, Northridge. American Mega Shows. Call: (818)961-3782.

May 7–11 1995 Conference On Human Factors In Computing Systems. Denver, CO. ACM. Call: (410)263-5382.

May 11–13 Electronic Entertainment Expo. Los Angeles. *Infotainment World* and Knowledge Industry Publications. Call: 1-800-800-5474.

May 13–14 Computer Marketplace Show. Fairplex Expo Center, Pomona. National Productions. Call: 1-800-800-5600.

May 14 American Computer Mega Show. Carson Center, South Bay. American Mega Shows. Call: (818)961-3782.

May 14 Computer Show And Sale. Scottish Rite Center, San Diego. MarketPro Shows. Call: 1-800-708-7555.

May 17–19 Government Technology Conference West. Sacramento. Smith & Shows. Call: (916)363-5000.

May 19–21 Small Office And Home Office Expo And Conference. Anaheim Convention Center. Advanstar Expositions. Call: 1-800-854-3112.

May 20 Computer Show And Sale. Fresno Fairgrounds. MarketPro Shows. Call: 1-800-708-7555.

May 20–21 American Computer Mega Show. Shrine Auditorium Expo Center, Los Angeles. American Mega Shows. Call: (818)961-3782.

May 21 ACP Computer Swap Meet. 1310 E. Edinger, Santa Ana. ACP. Call: (714)558-8813.

May 22–25 SunWorld Conference And Expo. San Francisco. IDG World Expo. Call: Susan Granata, 1-800-225-4698.

May 22–25 Virtual Reality World 95 Conference And Expo. San Jose. Mecklermedia. Call: (203)226-6967 or WWW at *http://www.mecklerweb.com/*.

May 24–26 International Trade Expo '95: US-China Tech Show. San Jose. CATE Development Inc. Call: (415)903-2288.

May 24–27 International Computer Expo. Hong Kong. CATE Development Inc. Call: (415)903-2288.

May 26–29 International Electronics, Computer, And Communication New Tech Expo '95. Guangzhou, China. CATE, Inc. Call: (415)903-2288.

May 27–28 American Computer Mega Show. CSU, Northridge. American Mega Shows. Call: (818)961-3782.

May 30–June 2 Electronic Publishing And The Information Superhighway Conference. Boston. Dartmouth Institute for Advanced Graduate Studies. Call: (508)443-3330.

June

June 3–4 American Computer Mega Show. Pasadena Convention Center. American Mega Shows. Call: (818)961-3782.

June 5–7 Digital World Expo. Los Angeles. SOFTBANK Expo and Conference Co. Call: (415)578-6900.

June 10–11 American Computer Mega Show. CSU, Long Beach. American Mega Shows. Call: (818)961-3782.

June 18 American Computer Mega Show. Carson Center, South Bay. American Mega Shows. Call: (818)961-3782.

July

July 1–2 American Computer Mega Show. Pasadena Convention Center. American Mega Shows. Call: (818)961-3782.

July 18–21 OS/2 World Conference And Exhibition. Boston. Miller Freeman, Inc., Call: Sherry Nykiel, (415)905-2354.

July 31–August 4 Tools USA Conference. Santa Barbara. Smith & Shows. Call: (805)685-1006.

Classes, Seminars, Workshops

April

April 1 Adobe Premiere MC Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 1–29 Intro To Client/Server Computing Class. Los Angeles. UCLA Extension. Call: (310)206-9309.

April 1–May 6 Authoring Multimedia Applications II: Building The Prototype Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 2–May 7 Fundamentals Of 3D Studio: A Workshop. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 3 Hollywood In Cyberspace: Staking Your Claim On The Online Frontier Seminar. Hollywood. Sensational Seminars. Call: Nina Steiner, (310)288-3425, email: *sensational@earthlink.net*.

April 3–4 Fundamentals Of Data Communications And Local Area Networks Seminar. Anaheim. Data-Tech Institute. Call: (201)478-5400.

April 3–4 Software Testing And Quality Assurance Seminar. Irvine. Data-Tech Institute. Call: (201)478-5400.

April 3–5 Basic Imaging With Photoshop III Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 3–6 Fundamentals Of MicroStation 5.0 Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 3–June 19 Building Client/Server Applications: A Hands-On Approach Using PowerBuilder, SQL Server, And Windows NT Class. Los Angeles. UCLA Extension. Call: (310)206-7252.

April 3–June 19 Computer Animation And Storyboarding With 3D Studio Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 4 Certified Software Manager Seminar. Los Angeles. Software Publishers Association. Call: Becky Howland, (202)452-1600 ext. 367.

April 4 Modern Telecommuting Free Seminar. Los Angeles. Ascend Communications. Call: 1-800-366-4058.

April 4–5 KPT Bryce Canyon Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 4–May 9 Developing And Publishing Your Multimedia Project On CD-ROM: From Concept To Distribution Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 4–June 6 Fundamentals Of Computer Modeling And Animation In 2-D And 3-D Space Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 4–June 30 Intro To Character Animation Using Animation Master Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 5–May 31 The Role Of Information Technology In Reengineering The Entertainment Company Of The Future Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

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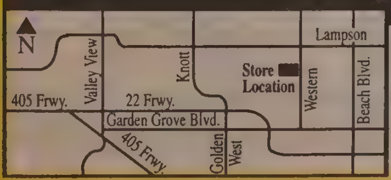

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May 6-7 Sat & Sun 10 - 5PM Cal State Northridge
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May 27-28 Sat & Sun 10 - 5PM Cal State Northridge
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Pyramid Jun 10-11 Sat & Sun 10 - 5PM PYRAMID: Cal State Long Beach

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Calendar Of Events *continued...*

tion For Film And Television Using Wavefront's Explore Professional Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 5–June 21 Building Client/Server Applications: A Hands-On Approach Using PowerBuilder, SQL Server, And Windows NT Class. Los Angeles. UCLA Extension. Call: (310)206-7252.

April 6 Modern Telecommuting Free Seminar. Irvine. Ascend Communications. Call: 1-800-366-4058.

April 6–7 Netware Basic Training Seminar. Costa Mesa. Center for Advanced Professional Development. Call: (714)261-0240.

April 6–June 8 Interactive Multimedia Production From Concept To Publishing: A Case Study Of Trivial Pursuit Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 6–June 22 Authoring Multimedia Applications I: Predevelopment Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 6–June 22 Demystifying Computers For Designers Class. Los Angeles. UCLA Extension. Call: (310)206-1422.

April 6–June 22 Intro To Client/Server Computing Class. Los Angeles. UCLA Extension. Call: (310)206-9309.

April 7–9 Jumpstart Imaging II Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 8–9 Adobe After Effects Master Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 10–11 Troubleshooting And Fine-Tuning The Networked PC Seminar. Irvine. Data-Tech Institute. Call: (201)478-5400.

April 10–13 Network And Computer Security: Principles And Applications Class. Los Angeles. UCLA Extension. Call: (310)825-1047, email: *mhenness@unex.ucla.edu* .

April 11–12 Windows Multimedia Production With Microsoft Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 13–June 1 Audio/Visual Production For Interactive Multimedia And Games Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 17 Advanced System Administration 5.x Class. Los Angeles. Silicon Graphics. Call: 1-800-800-4SGI.

April 17–19 AppleScript Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 17–19 Radius Digital Video Training Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 17–20 Intro To 3-D Animation Using TOPAS Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

April 20–21 Accessing The Internet Seminar. Irvine. Data-Tech Institute. Call: (201)478-5400.

April 21–23 3-D With Presenter Pro Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 21–23 Basic Desktop Video With Premiere III Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 24 Intro To IRIX Class. Los Angeles. Silicon Graphics. Call: 1-800-800-4SGI.

April 24–25 Troubleshooting The Mac Seminar. Anaheim. Data-Tech Institute. Call: (201)478-5400.

April 24–26 Basic Authoring Tools II Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 24–26 Multichip Module Design Class. Los Angeles. UCLA Extension. Call: (310)825-1047, email: *mhenness@unex.ucla.edu* .

April 24–26 Painter 3.0 Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

April 28–30 Macromedia Authoring Tools Class. Los Angeles. American Film Institute. Call: 1-800-999-4AFI or (213)856-7690.

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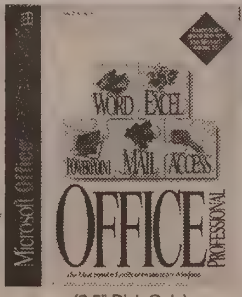

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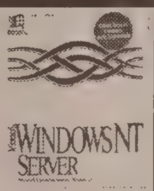

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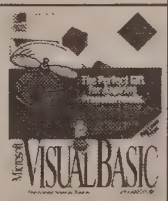

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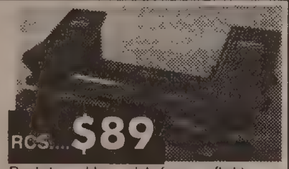

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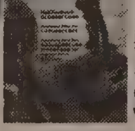

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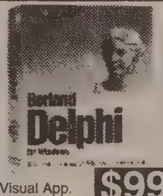

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Calendar Of Events *continued...*

May

May 1 System Administration 5.x Class. Los Angeles. Silicon Graphics. Call: 1-800-800-4SGI.

May 5, 6, 13 & 20 Client/Server Application Design With TCP/IP Class. Los Angeles. UCLA Extension. Call: (213)206-9309.

May 8–9 Understanding Client/Server Computing Seminar. Irvine. Data-Tech Institute. Call: (201)478-5400.

May 12–14 Virtus WalkThrough Pro For Film And Theater Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

May 13 Evaluating And Selecting Educational Software Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

May 19–21 Nonlinear Editing On The PC With D/Vision Pro Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

May 22–24 Fuzzy Logic, Chaos, And Neural Networks: Principles And Applications Class. Los Angeles. UCLA Extension. Call: (310)825-1047, email: *mhenness@unex.ucla.edu* .

May 22–26 Telecommunications Networking: Local, Metropolitan, And Wide-Area Networks Class. Los Angeles. UCLA Extension. Call: (310)825-1047, email: *mhenness@unex.ucla.edu* .

May 24–25 Data Communications And Networking Seminar. San Diego. Center for Advanced Professional Development. Call: (714)261-0240.

May 24–25 Troubleshooting And Maintaining The IBM PC And Compatibles Seminar. Irvine. Data-Tech Institute. Call: (201)478-5400.

May 29 System Administration 5.x Class. Los Angeles. Silicon Graphics. Call: 1-800-800-4SGI.

June

June 2–4 Intro To 3-D Modeling, Rendering, And Animation Using Visual Reality Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

June 5–22 Multimedia On The Desktop: A Primer Of Authoring Programs Class. Los Angeles. UCLA Extension. Call: (310)825-9064.

June 12 Intro To IRIX Class. Los Angeles. Silicon Graphics. Call: 1-800-800-4SGI.

June 15–16 Advanced Troubleshooting For The Macintosh Seminar. Costa Mesa. Data-Tech Institute. Call: (201)478-5400.

June 19 System Administration 5.x Class. Los Angeles. Silicon Graphics. Call: 1-800-800-4SGI.

June 19–20 Understanding Data Communications Seminar. Anaheim. Data-Tech Institute. Call: (201)478-5400.

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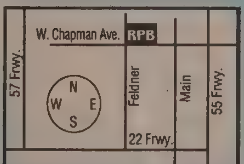

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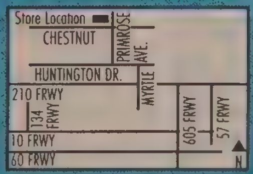

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4Next GT BBS. (310)420-4788, 529-7452; (714)956-4698, 559-4669, 831-9043; (818)330-7151; (909)592-9833. 8-N-1, 24 hrs., up to 28,800. 72 lines. Internet, FidoNet, chat, games, CD-ROMs, and more. Free trial. Sysop: Chris Eden. [Exp. #135.]

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BBS Spotlight

By John Wolcott

What's Next?

You say you've been hunting the elusive all-you-could-ever-want BBS? Here it is! 4Next GT BBS, located in Anaheim, has so many features that it will take some time to become completely acquainted with all of them; but it will be time well spent.

The system sports seventy-two incoming phone lines supported by Zyxel 16.8 modems. There are local access numbers for the entire Los Angeles and Orange County areas, and much of Riverside County. System hardware is expansive, with fifteen Pentium and 486 PCs and six Pioneer CD-ROM changers, all networked together. The software running this professional system is MajorBBS v6.25 with ninety-five add-on modules enhancing system features and RIP v1.54 for all of the RIP graphics fans.

The sysops are Jeffrey Smith, alias Rattion C C H Q, and Chris Eden, alias Wavelength. Smith, a full-time employee of the 4Next GT Corporation, is quite proud of presenting a polished BBS. "Our philosophy here is putting our customers first. This adds a personal touch. Our users can always reach us when they need us. If we're not online, we even post an 800 number for emergency contact. This is not just a hobby for us, it's our business," he explained.

The main menu will give you access to Teleconference, the Mail Room, File Libraries and CD-ROMs, Games and Doors, online help, and system information. Navigation of the various functions is easy, with menus prompting you for choice selection.

Teleconference is a means of chatting with other connected users. This is a popular attraction for many BBSes and never lacks excitement and entertainment. There are actually four different chat areas: 4Next Cafe (Main Chat), Teen Chat (seventeen and under), WaRzOnE (No RuLeZ), and Adult Chat (eighteen and over). Action commands are available in all chat areas, although the commands available vary depending upon which area you're in. You may obtain a list of available commands from any area by typing "/a list."

The Mail Room will allow you to communicate with other 4Next GT users as well as BBS users worldwide with networked email. Networks currently offered for message transmission are MajorNet, FidoNet, Internet, and FaxNet. Current access to the Internet is limited to newsgroups (not all, but many) and email. FaxNet allows you to transfer text and files by fax—a handy thing if you don't have a fax machine and you're not in the mood to run down to the local copy shop to send a fax.

The system also features "Dial Out Service" to other BBSes, which allows you to call other bulletin boards from 4Next GT. Simply select a BBS from the Dial Out menu and 4Next GT becomes transparent. This may make reaching another BBS a local call for you by only having to actually call 4Next GT for the Dial Out.

The file libraries include over ten thousand shareware files stored on disk, as well as innumerable CD-ROM files on the CD changers. There are some adult-oriented files available, but you'll only have access to those files after presenting proof of age, in person, to a system operator. Files have been virus-scanned for your protection both automatically by the system and by the library-op. All popular download protocols are supported, including Zmodem, for your download pleasure. This is where you'll be glad you bought that 14,400 V.42bis modem.

The selection of online games will overwhelm you. Of course, all of the BBS standards are here. If you select the Games choice from the main menu, you'll be met with a categorical menu. Choose from the type of game you'd care to play: adventure games, arcade games, board games, card and Vegas-style games, strategy games, and word games. Each of these choices takes you to a new menu featuring many game titles.

System help on 4Next GT is of a different breed. You won't find the standard MajorBBS help file here. A help menu will direct you to a particular area of system help and give special instructions for that area. This way you can access the information you

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California On-line by EIN. (310)817-4346. 14,400/28,800. Multimedia Windows environment; music, travel, news, fashion, entertainment, Hollywood, Internet access. Sysop: Don Goering. [Exp. #136.]

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619

Children Of Faith Online Fellowship. (619)244-7957. 24 hrs., 14,400. Fellowship with your Christian brothers and sisters online in Windows. Sysop: Gregory A. Holmes. [Exp. #137.]

Outlaw BBS. (619)322-0794. 24 hrs., 14,400. Excalibur Windows point-and-click terminal, fully unique adult BBS. Free limited access. [Exp. #137.]

714

1% Homeseller BBS. (714)990-4802. 8-N-1, 24 hrs., 2400/14,400. Homes for sale in Southern California. Free. [Exp. #137.]

The AutoBBS. (714)978-0194. 8-N-1, 24 hrs., 14,400. Everything automotive online, Windows interface, buy/sell at fleet prices. Sysop: Tony Cheng. [Exp. #137.]

Brian's World BBS. (714)530-3123. 24 hrs., 2400–14,400. Internet/ Usenet, chat, adult, Apogee, thousands of files, games. Some fees. Sysop: Brian Anderson (aka The Big Cheese). [Exp. #136.]

Cyber Arena. (714)577-9568. 8-N-1, 24 hrs., 2400–14,400. General file areas available to everyone, with fees for technical support areas. Free/$15 per mo. Sysop: Dan Tanner. [Exp. #136.]

Eat My Shorts! BBS. (714)827-7776. 8-N-1, 24 hrs., 28,800. 1.2GB adult, online games, and Netmail. [Exp. #137.]

The Emerald Isle BBS. (714)870-3050. 8-N-1, 300–14,400. 25 lines. Four-player Doom, chat, files, multiplayer games, more local lines. Fees. Sysop: James Wihardja. [Exp. #137.]

Frolic Room. (714)839-2174. FidoNet, files, online gem CD-ROM. $15 every three months. Sysop: Fred Piersee. [Exp. #136.]

GaDgEtS, gizMoS aNd OtHeR cOoL ThinGs To BuY. (714)992-1732. 24 hrs. Offers a wide range of truly unique products to purchase online; GUI. Free. [Exp. #136.]

Happy Trails BBS. (714)547-0719. 24 hrs., 28,800. Seven lines. FidoNet, Internet, UChat, QSO, 2GB downloads. Free trial. Sysop: Don Inglehart. [Exp. #136.]

Instant Savings BBS. (714)693-8634. 24 hrs., 2400–14,400. Money-$aving coupons, free classified ads, discussion forums, conferences. Free. [Exp. #137.]

The Irvine "X"Change BBS. (714)552-0589. 8-N-1, 24 hrs., 2400–28,800. Online games, s/w files, messages, bulletins. Free access w/adult fee. Sysop: Richard Neilssien. [Exp. #137.]

The Mega Connection BBS. (714)744-5005. 24 hrs., 2400–28,800. Experience the online 24-bit graphics, 5GB+, all file types. [Exp. #137.]

Midnight Jungle BBS. (714)280-1102. 8-N-1, 24 hrs., 14,400. Multinode. Chat, six CD-ROMs, adult areas, Internet access, games. Basic access free. Sysop: Chieftain. [Exp. #137.]

The Midnight Mission BBS. (714)848-6808. 8-N-1, 24 hrs., 1200–14,400. Four lines. Large game and XX-GIF file areas. Full access with call back. Sysop: Marty Strech. [Exp. #137.]

Mission Online. (714)258-0707. 24 hrs., 28,800. Multiline. Internet, RIP, CD library, forum for programmers and data processing professionals. Free. Sysop: Kurt Steffien. [Exp. #137.]

The Modem Express. (714)994-9502. 14,400. Files, games, doors, chat, multiuser interest. [Exp. #137.]

The Orange Archives BBS. (714)532-1937. 2400–28,800. Three lines. 5.5GB of DOS, Windows, adult transfers; games; instant validation. No fees. [Exp. #137.]

OrnJuce. (714)778-1228. 8-N-1, 24 hrs., 300–14,400. BBS of the All Computer Assoc. of Orange Co. Supports Atari, Mac, PC, and others. Free. [Exp. #137.]

Outlaw BBS. (714)772-0794. 24 hrs., 14,400. Excalibur Windows point-and-click terminal, fully unique adult BBS. Free limited access. [Exp. #137.]

Prime Cut Magazine BBS. (714)542-4566. Windows BBS, all adult. You won't believe your eyes! Free look-see. [Exp. #135.]

Publishers Online. (714)548-2110. 24 hrs., 300–28,800. You are the sysop! Magazines, newsletters. One key logon. $1/month. Sysop: Jerry Macoy. [Exp. #136.]

VisuaLink Systems BBS. (714)978-0194. 8-N-1, 24 hrs., 14,400. Prechecked, clean used vehicles. Expertise, digital photographs, condition reports, more. Free. [Exp. #135.]

805

The New Dork Sublime BBS. (805)823-1346. 300–14,400. NIRVANAnet SoCal hub. We're underground like a wild potato. Don't die wondering... Sysop: Biffnix. [Exp. #136.]

SCV PC Users Group BBS. (805)297-7993, 297-7994. 24 hrs., 2400–14,400. Files, Interlec email, Wildcat BBS. [Exp. #137.]

818

Ace Station BBS. (818)891-0397. 24 hrs., 28,800. Chat, Internet, games, files, 500 CD-ROMs, 15GB H/D—350GB total. [Exp. #136.]

A.K.A. BBS. (818)881-0142, 881-9633. 8-N-1, 24 hrs. Internet access, 3GB files available, games. Sysop: Don Lafferty. [Exp. #137.]

Blazin' Bytes BBS. (818)776-2777. 16 lines of fun. Games, pubs/SIGs, chat, warm family-style adult board, women welcome. Sysop: Barbara Mallut. [Exp. #136.]

The Continuum BBS. (818)441-3867. Files, doors, chat, Internet email. Sysop: Jon Carmichael. [Exp. #136.]

David's Amazing BBS & Internet Services. (818)997-7500. 24 hrs., up to 14,400. Showing off the Net with a smile, not a scowl. Free for now. Sysop: David Dennis. [Exp. #135.]

Earthquake City BBS. (818)368-3337. 8-N-1, 24 hrs., 14,400. Files, messages, games, 1GB online. Free. Sysop: Steven Libis. [Exp. #135.]

Eclair Online. (818)288-0573. 24 hrs., 2400–28,800. Free Internet email; sports, USA Today, CD-ROM, files, weather, more. Free. Sysop: Henry Ho. [Exp. #135.]

Follow Your Heart—Heart Disease Support BBS. (818)776-2778. 24 hrs. For heart disease patients, family, friends, caregivers, plus medical community; caring. Free. [Exp. #136.]

Ghost Town BBS. (818)996-9913. 24 hrs., 14,400. 16 lines. All ages welcome, interactive online games, files, much more. [Exp. #136.]

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InvestorLink. (818)331-4611. Interested in stocks? Real estate? Commodities? Opportunity? We are the investor's BBS. Sysop: Steve Painter. [Exp. #136.]

KTB Internet Online. (818)240-4000. 8-N-1, 24 hrs., up to 14,400. Internet email, Usenet newsgroups, UUCP, PD files; UNIX/Windows/Internet consulting. Fee. [Exp. #137.]

LA Free-Net. (818)776-5000. 8-N-1, 24 hrs., up to 14,400. 16 lines. Nonprofit community network with extensive Internet connections: newsgroups, gopher, email; and more. $10/year. Sysop: Alex Jalinous. [Exp. #135.]

Leonardo Internet. (818)345-9208. Full PPP access to absolutely every Internet service available. $17.50/mo. Contact Dr. Robert Amodeo, *robert@leonardo.net*, (310)395-5500. [Exp. #136.]

Movers & Shakers—Parkinson's Center BBS. (818)776-2784. 24 hrs. For Parkinson's Disease patients, caregivers, families, friends, and medical community. Warm and personal. Free. [Exp. #136.]

On The Bright Side—Agoraphobia Support Board. (818)776-2781. 24 hrs., For those with agoraphobia/ panic

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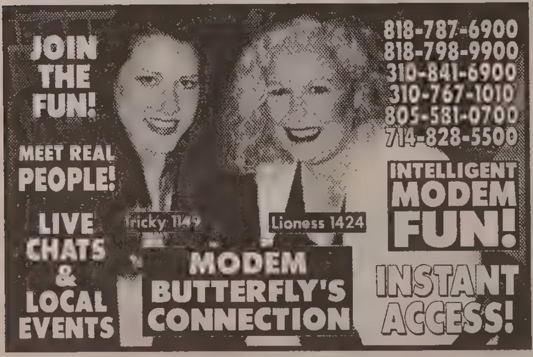

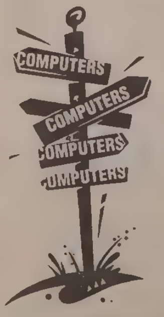

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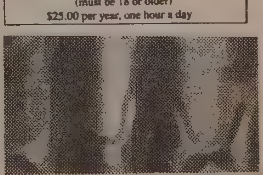

ASSOCIATIONS

ACM—The First Society In Computing, Los Angeles Chapter. Meetings: 1st Wed., 7:00 pm dinner, 8:00 pm program, Ramada Hotel, Culver City. For dinner reservations, (310)831-0611 ext. 2702; for program information, (818)785-5056; for membership information, (310)377-6226. [Exp. #140.]

International Interactive Communication Society. Meetings: 2nd Mon. Virtual reality, multimedia, info highway issues, and more. Call: (310)313-5664. [Exp. #139.]

Planet Data Service Company's Desktop Publisher's Association. Meetings: 1st Mon., 7:00 pm, Covina. Support group and networking for those in DTP fields. Newsletter, referrals, and more. $50/yr. Call: (818)332-0329. [Exp. #137.]

Software Council Of Southern California. Meetings: usually 4th Wed., 6:00 pm, Long Beach Marriot, Main Ballroom, 4700 Airport Plaza Dr.; also breakfasts and luncheons around SoCal. A nonprofit trade association of software development organizations and companies providing support and services to the local software industry. Call: Bill Manassero, (310)328-0043. [Exp. #138.]

The Software Toolsmiths. Meetings: last Sat., 10:00 am, Joslyn Center, 339 Sheldon St., El Segundo. Discussion and tutorials on programming, including C++, Forth, J, SmallTalk, algorithms, operating systems, and hardware. Neophytes welcome. Call: John LuValle, (818)797-8656 or email: *luvalle@primenet.com*; or Howard Rogers, (310)532-3342 (eves.). [Exp. #140.]

BULLETIN BOARDS cont.

disorders, family, friends, caregivers, medical community; caring. [Exp. #136.]

Panasia BBS. (818)569-3740. 24 hrs., 2400–28,800. Worldwide echomail and Internet email, high-quality file area. Free access. [Exp. #135.]

The SLATE BBS. (818)763-9172. 8-N-1, 24 hrs., 300–14,400. Sports, law, tons of everything, files, original games, and more. Free. Sysop: Rob Reed. [Exp. #137.]

Slam's BBS. (818)357-2436. 24 hrs. There will be files for download and upload, and other etc. Free. Sysop: Slam. [Exp. #137.]

Sugar Free BBS! Diabetes Support Board. (818)776-2779. 24 hrs., For those with diabetes, family, friends, caregivers, medical community; caring. Free. [Exp. #136.]

The Big "C" BBS—Cancer Support BBS. (818)776-2780. 24 hrs., For cancer patients, family, friends, caregivers, medical community; warm and caring. Free. [Exp. #136.]

Tin Shack BBS. (818)992-3321. 300–14,400. All the latest files you'd ever need at high speed! Free. Sysop: Guy Nohrenberg. [Exp. #136.]

Valley West Online BBS. (818)888-8419. 8-N-1, 24 hrs., 14,400. Multiline. 70+ games, 2GB, Fun! Donations based. [Exp. #136.]

Wizardry BBS. (818)222-4444. 2400–14,400. Online games, downloads, uploads, adult GIF and text files. Free. [Exp. #136.]

Wyrm BBS. (818)793-2426. 8-N-1, 24 hrs., 28,800. PC files user-evaluated. Uploaders paid. Online games. [Exp. #136.]

909

Burning Bush BBS. (909)861-5881. 8-N-1, 24 hrs., 1200–9600. Online chat, files, forums, current world events. [Exp. #137.]

CafeXpresso: An Electronic BBS Coffeehouse. (909)944-3336. 8-N-1, 24 hrs., 14,400. Writers, readers, artists, the coffeehouse culture. Sysop: Joseph Valentinetti. [Exp. #136.]

Data Connection. (909)698-7257. 8-N-1, 24 hrs., 28,800. Multiline. Internet email, newsgroups, satellite feed, 12 CDs, adult. Fee. Sysop: Dennis J. Clark. [Exp. #137.]

Dragon's Lair BBS. (909)794-4340. 8-N-1, 24 hrs., 1200–14,400. CD-ROM, large file base, FidoNet, WWIVnet, ICEnet, many echoes, msg. bases. Free access. Sysop: Hawkeye. [Exp. #137.]

The Empire BBS: The Next Generation. (909)946-1448. 8-N-1, 24 hrs., 300–14,400. Multiline chat, all welcome, matchmaker, flower shop, files. From $2.50/month. Sysop: Tigana and Emperor. [Exp. #135.]

The French Connection BBS. (909)428-7648. 24 hrs. Eight lines. California's largest adults-only BBS. View GIFs online in Windows. Sysop: Christopher A. Moss. [Exp. #136.]

Legend Graphics Online. (909)689-9229. 24 hrs. 16 lines. Super VGA photo images, MoviePICs, huge adults-only file areas. [Exp. #137.]

Outlaw BBS. (909)872-0794. 24 hrs., 14,400. Excalibur Windows point-and-click terminal, fully unique adult BBS. Free limited access. [Exp. #137.]

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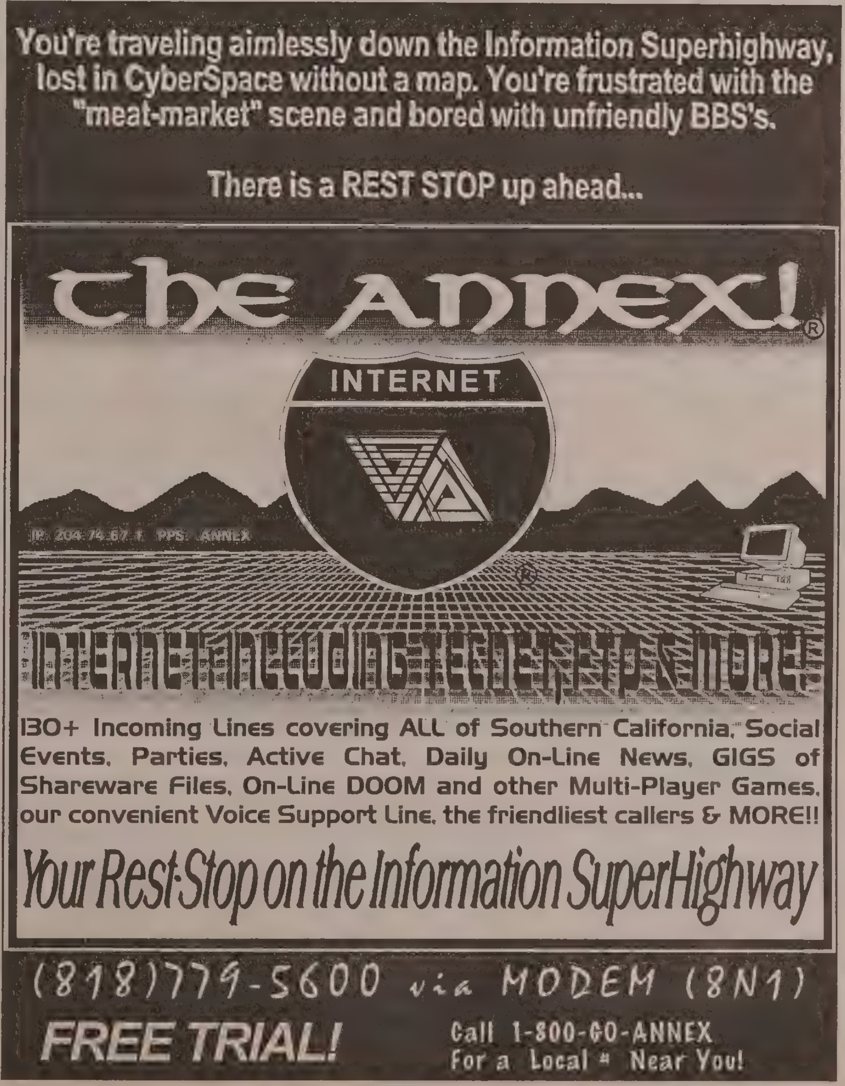
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USER GROUPS

AMIGA

Amiga Users Group Of Long Beach. Meetings: 1st Thurs., 7:00 pm, Fire Station Bldg., 5373 E. Second St., Belmont Shores. All persons with an interest in the Amiga computer welcome. Free. [Exp. #137.]

ATUG—San Gabriel Valley. Meetings: last Tues., 7:00 pm, Michaelangelo's Pizza, San Dimas; 3rd Sat., 11:00 am, 1st Southern Baptist Church, Temple City. Call: Steve Ward, (818)285-6424. [Exp. #140.]

APPLE

Champions Of The Mac Proletariat (CHOMP). Meetings: 4th Thurs., 7:00 pm, Cal Poly Pomona, CLA Building, Rm. P2-7, Pomona. Question and answer, raffle of useful software, opportunity to purchase at discount. Call: Craig Richards, (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #140.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac users group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #140.]

ATARI

ATESIG—Atari 8-Bit SIG. Meetings: 145 Surf Pl., Seal Beach. Cooperative user group for model railroad applications. Call: (310)430-5433. [Exp. #139.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #137.]

CAD

Los Angeles AutoCAD User Group—LAAUG. Meetings: 4th Wed., 6:30 pm, Burbank Board of Realtor's, 2006 W. Magnolia Blvd., 2nd Floor, Burbank. Newsletter, BBS, tutorials, 3D SIG; $50/year or $10 at door. Call: Michael Berman, (818)762-9966. [Exp. #140.]

COMMODORE

San Fernando Valley Commodore 64/128 Users Group. Meetings: 1st Tues., 7:00 pm, Balboa Park Recreation Center, Rm. 2, Balboa and Burbank blvds., Encino. Call: Paul Kroll, (818)892-3859. [Exp. #137.]

DESKTOP PUBLISHING

Desktop Publishing Support Group And Network Social. Meetings: 1st Mon., 7:00 pm, Covina. Hosted by Planet Data Service Company. $1 w/RSVP, $2 at door. Call: Diane M. Silvers, (818)332-0329. [Exp. #137.]

IBM & COMPATIBLES

Greater South Bay PC User Group. Meetings: 2nd Thurs., 7:30 pm, Torrance Recreation Center located behind the main city library, Torrance. Visitors welcome. Call: (310)335-2799. [Exp. #137.]

Long Beach IBM PC And Compatibles Users Group. Meetings: 3rd Wed., 7:00 pm, Masonic Temple, 5155 E. Pacific Coast Hwy., Long Beach. Novice and experienced welcome, BBS, public domain library, newsletter, SIGs. $25/year, $35 for families. Call: Jim Wells, (213)439-7114. [Exp. #139.]

MicroLink PC Users Group. Meetings: 1st Sat., 6:00 pm, La Habra Sr. Center, 165 E. La Habra Blvd., La Habra. Friendly group committed to helping people of all skill levels. Call: (714)491-6069. [Exp. #137.]

NOCCC (North Orange County Computer Club). Meetings: 1st Sun. Computer-oriented meetings, SIGs, newsletter, raffles, and BBS. Call: (714)998-8080. [Exp. #137.]

Orange County IBM PC Users Group. Meetings: 2nd Tues., 6:30 pm. Speakers, software, newsletter, BBS. Open to public, all welcome. Call: (714)990-0580. [Exp. #139.]

Pasadena IBM Users Group. Meetings: 3rd Wed., 7:00 pm, 2184 N. Lake Ave., Altadena. Speakers on hardware/software, demonstrations, SIGs, library, newsletter, and BBS. Call: Steve Bass, (818)791-1300. [Exp. #138.]

SCV PC Group. Meetings: 2nd Wed., 7:00 pm, Valencia Town Center Community Room. Call: (805)298-1680. [Exp. #140.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #137.]

Southern California Computer Society. Meetings: 4th Tues., 7:00 pm, Farmers & Merchants Bank, 12535 Seal Beach Blvd., Los Alamitos. We welcome all who are interested in IBM and compatible computers; BBS and newsletter. $15/yr. Call: Hank Burwash, (310)596-9670. [Exp. #139.]

Thousand Oaks Personal Computer Club (TOPCC). Meetings: 4th Thurs., 6:30 pm, Goebel Senior Adult Center, 1385 E. Janss Rd., Thousand Oaks. Call: Maggie, (805)494-8675 or Dick, 583-2804. [Exp. #140.]

Tug-Net. Meetings: 1st four Thurs. 7:00 pm, Glendale Federal Bank, 7119 Topanga Canyon Blvd., Canoga Park. Visitors free. Ample parking. Call: (818)249-1629 or 884-9441. [Exp. #139.]

KAYPRO

KAYOS Kaypro User Group. Meetings: 4th Mon. of even months, 6:00 pm, El Segundo Library, Mariposa and Richmond streets. Call: (310)379-8339. [Exp. #137.]

MACINTOSH

Champions Of The Mac Proletariat (CHOMP). Meetings: Thurs. monthly, 7:00 pm, Cal Poly Pomona, CLA Building, Rm. P2-7, Pomona. Call: Craig Richards (909)985-7385 or Mitch Cohen, (909)598-5766. [Exp. #140.]

Long Beach Chapter Of LAMG. Meetings: 1st Tues., 6:00 pm, Signal Hill Elementary School Auditorium, 2285 Walnut, Signal Hill. Presentations, Q&A, diverse group of new and experienced Macintosh users. Call: Roger Kroll, (310)433-9818. [Exp. #140.]

Original Apple Corps. Meetings: 2nd Sun., West LA area. Apple II and Mac user group. Support for beginners through experts. Call: Fred Duffy, (310)450-3336. [Exp. #140.]

South Bay All Computer Enthusiasts. Meetings: 2nd Tues., 7:30 pm, VFW Hall, 1865 Lomita Blvd., Lomita (1 block W of Western). All skill levels. Call: Danny or Mary, (310)834-0040. [Exp. #137.]

South Bay Apple Mac User Group. Meetings: Last Wed., 8:00 pm, El Camino College, MCSC Rm. 100, 16007 Crenshaw Blvd., Torrance. Newsletter, PD library, demos, and raffles. Call: (310)644-3315. [Exp. #137.]

Southern California Macintosh Owners/Users Group (SMOG). Meetings: 2nd Sat., 10:00 am, Western Digital Bldg., off 405 Freeway at Irvine Center Dr., Irvine. Speakers, product demos, Q&A, PD disks. All skill levels. Call: Dani Maloy, (909)698-7737. [Exp. #139.]

MUSIC

Club Mid. Meetings: 1st Tues., 7:00 pm get acquainted, 7:30 pm meeting, 12282 Loraleen, Garden Grove. Discuss all aspects of MIDI, music, and computers. Call: Art, (714)539-3808. [Exp. #138.]

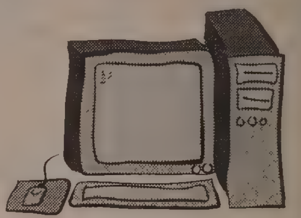
NETWORKING

Los Angeles NetWare Users Group (LANet). Meetings: 4th Tues., 6:30 pm, Novell, 11300 W. Olympic Blvd. at Sawtelle, 9th Floor, West LA. Vendor presentations and open forum. Call: SCNUA, 1-800- 532-7268. [Exp. #137.]

Orange County Magic Users Group. Meetings: last Wed., 7:00 pm. For users of Magic client/server tools. Call: Richard Grimm, (714)637-7718. [Exp. #137.]

TANDY

San Gabriel Valley Tandy User's Group. Meetings: 2nd Fri., 7:00 pm, Arcadia Park Senior Citizen's Center, 405 S. Santa Anita Ave., Arcadia. Support for Tandy and IBM compatibles, BBS, newsletter, RAM session. Call: Jack Nock, (818)578-0411. [Exp. #140.]



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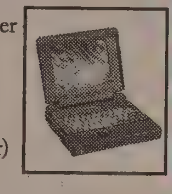

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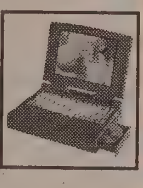

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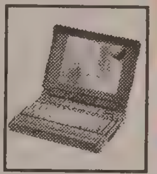

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US Robotic Fax/Modem 14.4/14.4 Int	99	.96
US Robotic Fax/Modem 14.4/14.4 Ext.	122	.118
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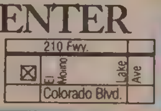

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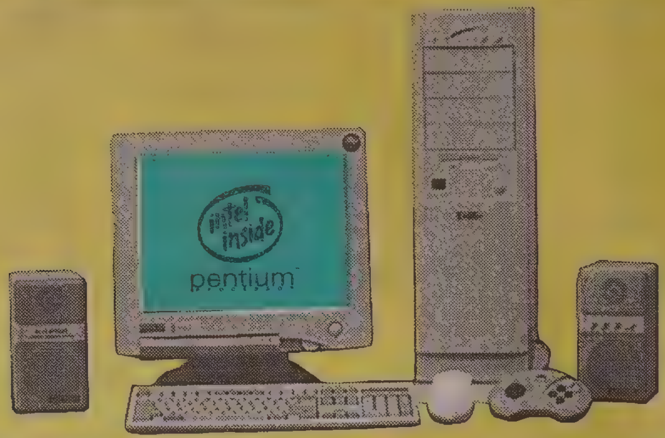

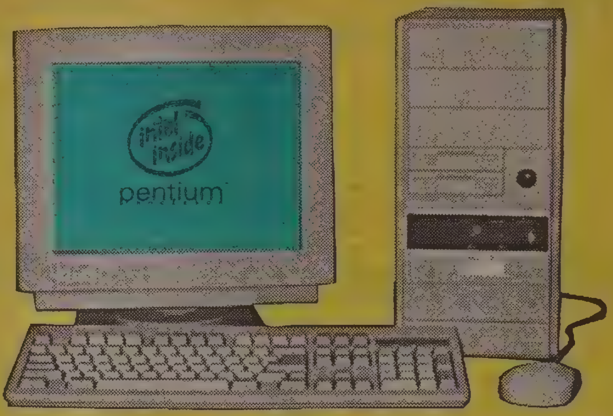

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- 15" Non-Interlaced .28mm Flat Screen Monitor
- Two High Speed Serial Ports (16550 UART) & 1 Parallel & 1 Game Port
- 1.44MB Floppy Drive
- 101 Key Keyboard
- Hi-Resolution Mouse
- Double Speed (2X) CD-ROM
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- 2 Serial Ports, 1 Parallel Port & 1 Game Port
- 1.44MB Floppy Drive
- 101 Key Keyboard
- Hi-Resolution Mouse
- Double Speed (2X) CD-ROM
- Sound Blaster 16 Sound Card
- 19 Popular CD Software Titles
- 30 Watt Stereo Speakers
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intel inside

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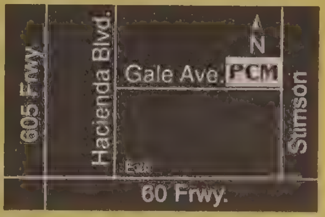

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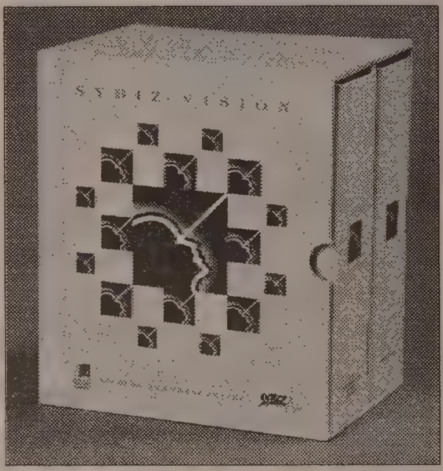
New Products

continued from page 110

Sybiz Vision



Sybiz Vision is a Windows-based accounting program that provides an integrated approach to financial management in a multiuser environment. It includes General Ledger, Accounts Receivable, Order Entry, Inventory Management, Accounts Payable, Purchase Order, and Crystal Report Writer modules. Sybiz Vision was developed using FoxPro for Windows and is very accessible for third-party integration, thus permitting the development of custom modules. It supports most local area network operating systems and has full record locking capability. (Module pricing ranges from $395 to $995; Sybiz Starter Kit, which includes General Ledger, Accounts Receivable, and Accounts Payable and a single-user system manager, is $1895). Sybiz International, Inc., 200 Brown Rd., Suite 306, Fremont, CA 94539. (510)249-1777.

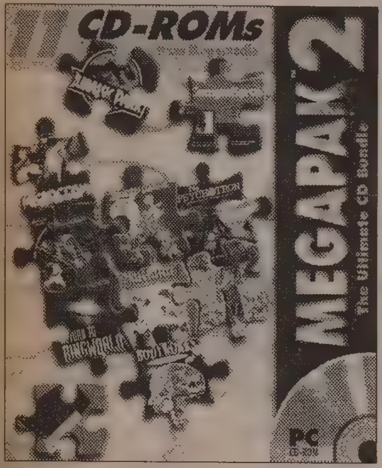
CD-ROM

1995 Grolier Multimedia Encyclopedia

The 1995 edition of Grolier's *Multimedia Encyclopedia* contains over six hours of multimedia, eight thousand images, thousands of new and revised articles, and several new narrated animations. Some of the new features include Pathmakers, six groups of people who have made great discoveries, major works of art, or other enduring achievements, each with a contemporary representative; 325 highly detailed interactive maps with hot links that allow users to explore and link other maps and explanatory articles; interactive historical timelines to explore cultures, kingdoms, periods, world movements, and transcultural trends; illustrated factboxes that contain summary text, graphics, maps, and pictures; and Related Concept Searching, which expands the breadth of a specific search to include topics loosely or indirectly related to the subject. ($149, Windows/MPC and Macintosh) Grolier Electronic Publishing, Sherman Turnpike, Danbury, CT 06816. 1-800-285-4534.

Megapak 2

Megapak 2 is a package of eleven entertaining CD-ROM titles covering everything from controlling dinosaurs, exploring the future, commanding warships, and battling medieval hordes to traveling through the human body. Included CDs are *Jurassic Park* by Ocean Software; *Spectre VR* by Velocity; *Bodyworks Voyager* by Software Marketing Corp.; *Shadowlands* by Domark Group; *The Psychotron* by Merit Software; the CompuServe Starter CD, which includes a free one-month membership; and five others. ($39.95) Megamedia, 1701 Bldg. D Fortune Dr., San Jose, CA 95131. (408)428-9920.



Financial Software

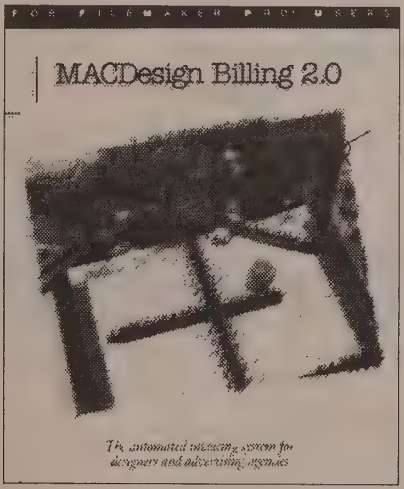
Simply Tax For Windows

For those of you who haven't begun your taxes yet, Simply Tax is a comprehensive tax preparation software program that makes it easy to complete tax returns. Featuring tax-savings tips from *The Ernst & Young Tax-Saving Strategies Guide 1995*, users can make the most of their tax situation. Tax tips on subjects from retirement to charitable contributions help users improve their financial future, while tax-planning strategies and last-minute year-end tax-saving ideas help users reduce taxes they owe. The PathFinder navigational tool guides users through their tax information in six different methods: FormFinder, History, Shoebox, TopicFinder, Bookmark, and Active Forms. With the Direct Import feature users can quickly and easily import data from most financial programs including Simply Tax 1993, Kiplinger's Simply Money, Quicken, Managing Your Money, TurboTax, and TaxCut. ($69.99) 4Home Productions, One Computer Associates Plaza, Islandia, NY 11788-7000. 1-800-773-5445.

Mac Software

MacDesign Billing 2.0

MacDesign Billing 2.0 is a series of templates for FileMaker Pro 2.0 that provides artists and designers with a complete system for estimating, invoicing, and billing clients. It includes the ability to bill by the hour, to make partial payment entries, and to mark up expenses. There are estimate and invoice layouts, an automatic statement generator, accounts receivable and YTD summary reports, and a database for client contacts. Five optional modules (available separately or as part of the Pro Package) handle purchases, time sheets, photography, service bureaus, and print advertising. The language in MacDesign Billing will be familiar to art production professionals: there are cost categories for mechanicals, type, stats, photography, and printing. MacDesign Billing also addresses tax regulations specific to the graphic arts industry. ($149, Pro Package with all five modules is $349, individual module prices range from $49 to $129.) Desktop Graphic Services, 2265 Westwood Blvd., #105, Los Angeles, CA 90064. 1-800-378-3000.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PC Software

3DPC Screen Savers

3DPC The Second Movement is the latest release of three-dimensional animated screen savers from Forté. It features nine new 3-D, ray-traced, surreal animations, including running morphing androids, clones emerging out of a burst of flames, and four-dimensional marching hypercubes. Many of the modules feature visual effects such as 3-D imaging, texture mapping, image morphing, montages, video fusion, 3-D surfaces and perspectives, solid model renderings, virtual realities. 3DPC The Second Movement also includes play corners to start and stop animations on demand, an animation previewer, privacy protection via a password, random or customizable play

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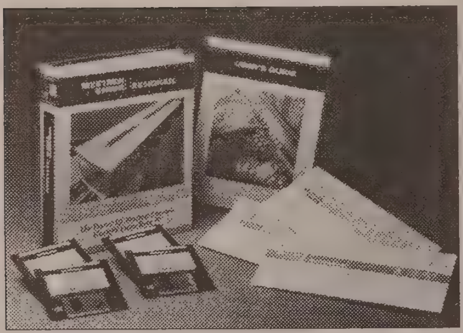
sequences, context-sensitive online help, and easy installation. For Windows 3.1 with a Mac version due this year. ($19.99) Forté, 2141 Palomar Airport Rd., Suite 100, Carlsbad, CA 92009. (619)431-6400.

Western Union DeskMail II

DeskMail II for Windows enables any business, organization, or individual to send Western Union Mailgram messages and other Western Union-expedited mail to any address in the US or Canada. Users can select Western Union Mailgram service, with next-day delivery; Priority Letter service, with two-day delivery; or Custom Letter, with first class delivery. When using Mailgram service, messages are electronically transmitted through the Western Union system, printed, given priority handling status, and delivered the next business day. With DeskMail, letters can include personalized signatures and logos, be sent certified mail, and can contain business reply envelopes. ($39.95)Western Union Financial Services, Inc., One Mack Centre Dr., Paramus, NJ 07652. 1-800-624-5472.



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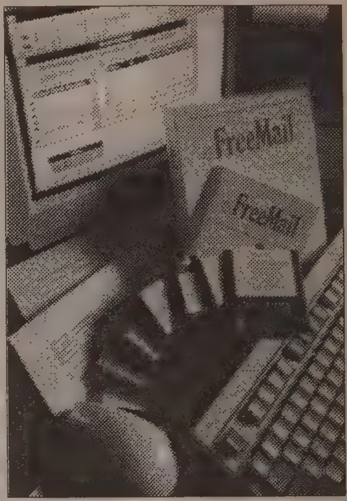
FreeMail allows standalone PCs to exchange unlimited email and files with other PCs. It does not require a computer network, but uses regular telephone lines and standard modems. Only one copy of FreeMail must be purchased; users can then make free copies that can be given away. The program offers the ability to send and receive any kind and length of file, file and message encryption, groups mailing, launching of Windows applications from FreeMail, automatic polling of other sites, an automatic file transfer system that-will send files only if they've been modified, time restrictions limiting when other sites can call you, the ability to share a single phone line with a fax or answering machine, built-in security, certified mail, and automatic file compression among other features. ($74.95) FreeMail, Inc., 2504 West Main St., Suite K, Bozeman, MT 59771-1656. (406)586-4200, email: *FreeMail@aol.com* .



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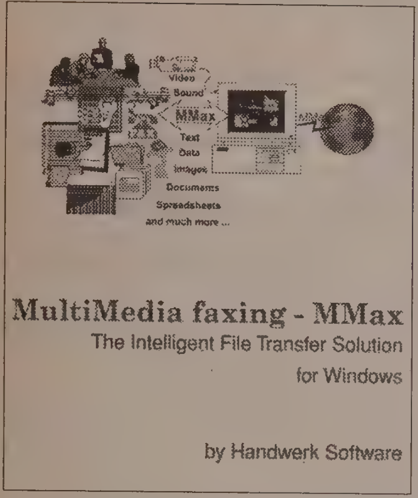

MMax is a multimedia file transfer application for Windows. Users select the file(s) to be transferred (up to 150), select a phone number, and click Send; the software does the rest. When receiving files, MMax places them in the appropriate directories: word processing files are placed in the word processing directory, spreadsheet files are placed in the spreadsheet directory. MMaxPro can send any type of Windows file such as video, sound, photos, images, text, application files, and batch files, among others; and includes Auto Send, Scheduled or Recurring Sends, scripting, normal faxing, and the ability to retrieve files from another PC. All versions of MMax can receive on command or in the background. ($19.95 for MMaxLite, $69.95 for MMaxPro) Handwerk Software; contact Marcan Distribution, 1038 E. Bastanchury, #125, Fullerton, CA 92635. (714)992-4028.

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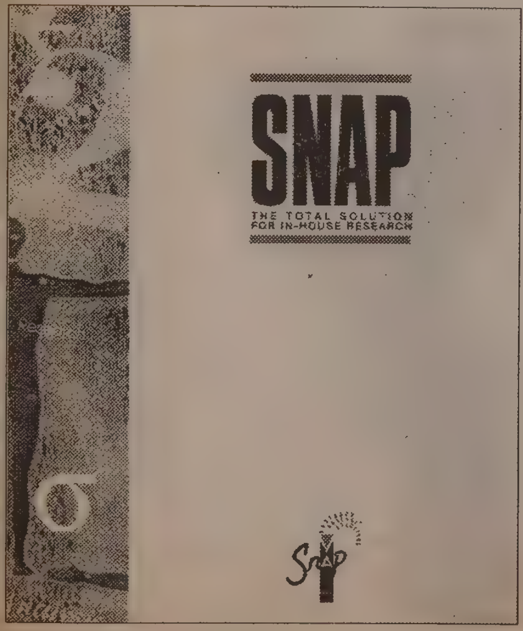

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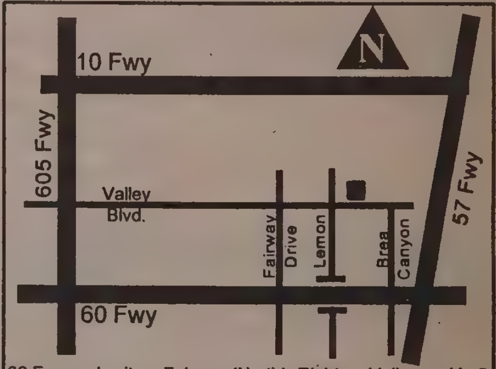

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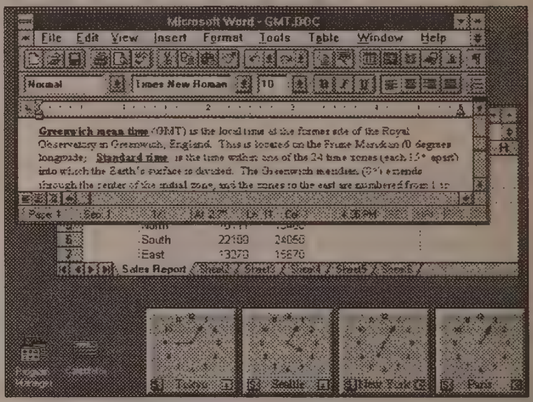

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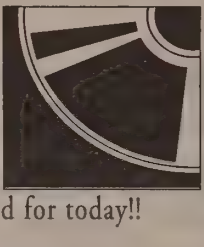

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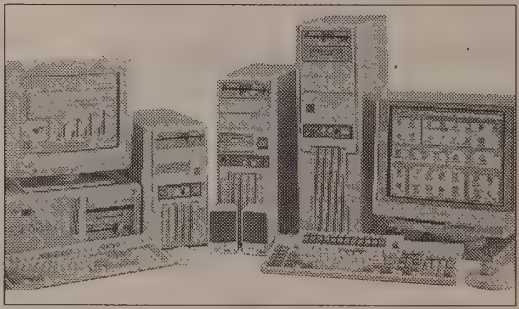

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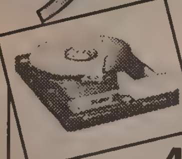

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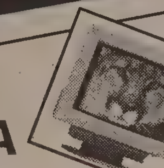

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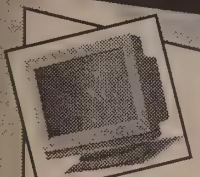

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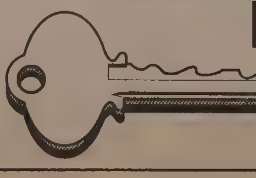

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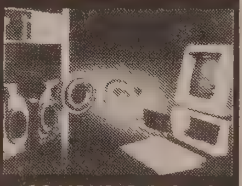

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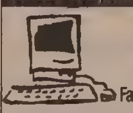

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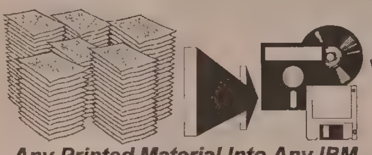

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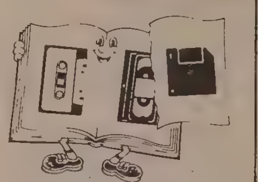

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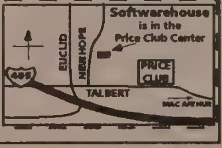

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Web Page Listings

continued from page 100

VEGAN ACTION

http://www.umanitoba.ca/arrs/va/vegan_action.html A nonprofit group providing information on vegan, animal-free diets and lifestyles. [Exp. #139.]

VINKO KOJUNDZIC'S HOME PAGE

http://maja.zems.fer.hr/~vkojun This is a home page with nice pictures of Zagreb, and a link to our official WWW server. [Exp. #140.]

VISIONWARE HOME PAGE

http://www.visionware.com/ PC/UNIX connectivity products: PC X-Servers, terminal emulators, ODBC solutions, and free software demos! [Exp. #140.]

W3-DESIGN

http://www.w3-design.com Designers of World Wide Web sites. [Exp. #139.]

WALT PERKO'S HOME PAGE

http://slip.net/~wperko See pics of CD-ROMs 10,000 Sounds & Songs and MegaMODMadNess vol. 1. [Exp. #140.]

WEBCHAT

http://www.IRSociety/WebChat.html Real-time, multimedia chatting on the WWW. [Exp. #139.]

WEB WORLD

http://204.188.129.2/netbiz/webworld.html or *http://voyager.via.net/netbiz/webworld.html* The World Wide Web home page directory. Access any listed page with one mouse click. [Exp. #140.]

WEDDINGS ONLINE

http://www.sensemedia.net/sprawl/weddings A one-stop information resource making it possible to plan your wedding right from home. [Exp. #140.]

WELCOME TO WOL ON THE WEB

http://www.cris.com/WOL The home of *Windows OnLine* and the *WinOnLine Review* (online magazines) commercial and shareware reviews. [Exp. #140.]

WH NETWORKS

http://www.whnet.com/wolfgang Connecting Minds, data communications archive. [Exp. #140.]

WORLD CONQUEST

http://dnai.com/~conquest Popular two- to twelve-player wargame (WWII) w/GUI (shareware), hourly turn processing. [Exp. #140.]

WRITER'S SHOWCASE

http://community.net/~necknox Tells about the author and book on disk called *Fatal Image.* [Exp. #140.]

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http://www.webcom.com/~blessed Interactive philosophical site that allows you to share your contemporaneous thoughts with your fellow beings. [Exp. #140.]

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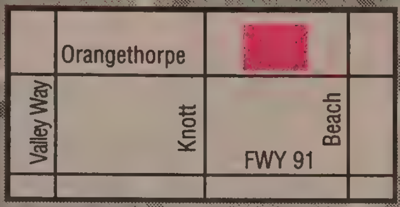

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- * minitower
- * 101 enhanced keyboard

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- * 101 enhanced keyboard

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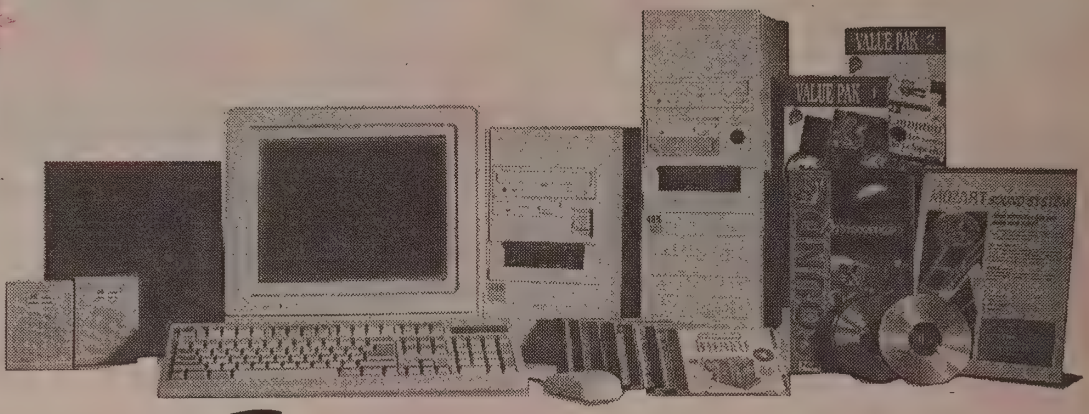

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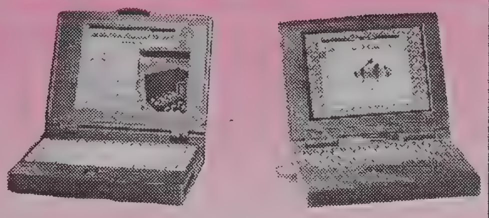

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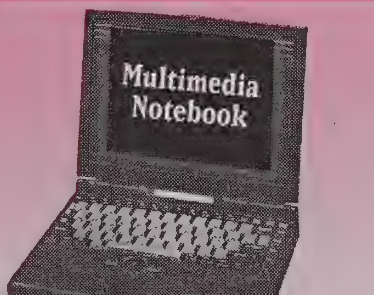

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ISA IDE W/16550 I/O	28
VLB IDE I/O	18
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PCI IDE	23
PCI SCSI-II (NCR ChipSet)	65
PCI Adaptec-2940 SCSI-2	[illegible]
PCI Adaptec-2940W SCSI-3	[illegible]

Fax/Modem

US Robotics 14.4 INT.	[illegible]
US Robotics 14.4 EXT.	[illegible]
US Robotics 28.8 INT. V.34	[illegible]
US Robotics 28.8 EXT.	[illegible]
Rockwell 14.4 INT.	58
Rockwell 14.4 EXT.	90
Intel 14.4 PCMCIA	199
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Mitsumi 1.44MB, 3 1/2"	29
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Conner 540MB IDE, 12ms	198
Conner 850MB IDE	[illegible]
Conner 1.2GB IDE	455
Conner 540MB SCSI-2	255
Conner 1.0GB SCSI-2	[illegible]
Conner 2.0GB SCSI-II	[illegible]
Maxtor 270MB IDE	[illegible]
Maxtor 420MB IDE	[illegible]
Maxtor 540MB IDE	[illegible]
Western Digital 1.0GB IDE	[illegible]
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Quantum 540MB IDE	[illegible]
Quantum 730MB IDE	[illegible]
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Quantum 2.0GB SCSI	[illegible]
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P5-90 PCI Intel Plato w/256K	318
P5-90/100 PCI w/256, IDE I/O	[illegible]
P5-60/66 PCI w/256K	[illegible]
486DX4/DX2 PCI w/256K	[illegible]
486DX4/DX2 VLB w/256K	[illegible]
486SLC2-66 VLB	[illegible]
386DX-40 w/CPU & 128K	[illegible]

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Mini Tower w/230W	[illegible]
Mini High Tower w/230W	[illegible]
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Maxiswitch 101 Enhanced	35
Fujitsu 101 Enhanced	38
Focus 2001 101 Enhanced	32
Focus 9000 101 Enhanced	48
MicroSoft Nature Key	98

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Logitech MouseMan II Serial	42
Logitech MouseMan II Bus	58
MicroSoft Mouse, Serial	[illegible]
MicroSoft Mouse, Bus/PS2	[illegible]
3 Button Compatible Mouse	10
TrackBall, Serial	25

Monitor

ViewSonic V21 21", 1600x1280 .28	1588
ViewSonic V17 17", 1600x1280 .28	[illegible]
ViewSonic V17G 17", 1280x1024 .28	[illegible]
ViewSonic V15 15", 1280x1024 .28, 60Hz	388
ViewSonic V15ES 15", 1024x768 .28, 76Hz	335
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MAG MX-17F, 1280x1024, .26	[illegible]
MAG DX-17F, 1280x1024, .26	619
MAG DX-15F, 1280x1024, .28	338
CTX 1765GM 17", 1280x1024 .28	575
CTX 1565GM 15", 1024x768 .28	315
CTX 1451ES 14", 1024x768 .28	215
Acer 76I 17", 1280x1024 .27NI, Digital	565
Acer 56L 15", 1280x1024 .28 Digital	318
Acer 34T 14", 1024x768 .28NI, EPA	199
NEC XE21, 1280x1024 .28, 60Hz, LR	[illegible]
NEC XP21, 1680x1200 .28, 70Hz, LR	2375
NEC XE17, 1024x768 .28, 76Hz, LR	[illegible]
NEC XP17, 1280x1024 .28, 76Hz, LR	[illegible]
NEC XE15, 1024x768 .28, 76Hz, LR	[illegible]
NEC XP15, 1024x768 .28, 76Hz, LR	[illegible]

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Diamond Stealth-64 PCI/VLB 2MB VR	[illegible]
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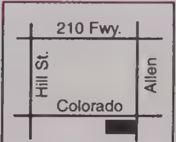

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- Keyboard & Mouse

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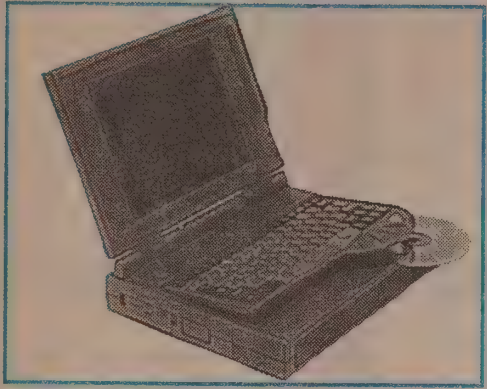

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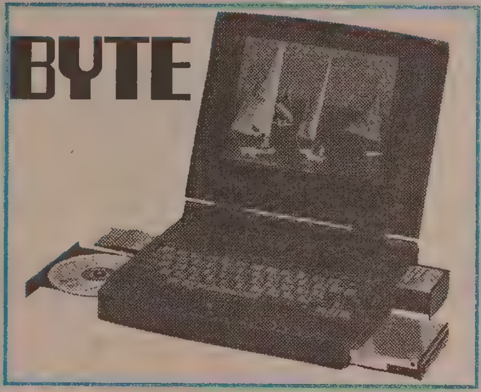

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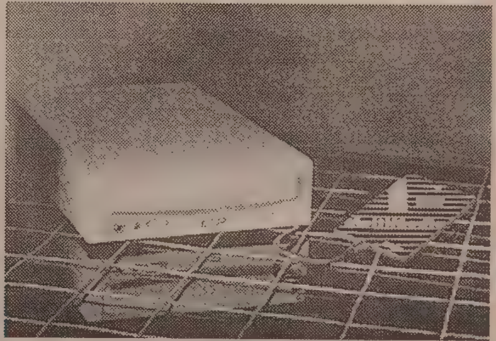

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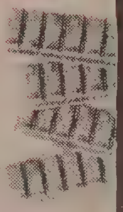

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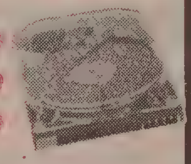

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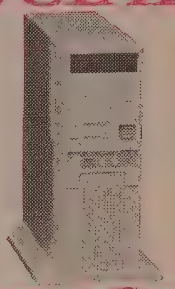

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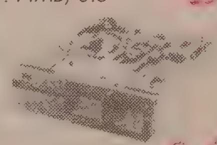

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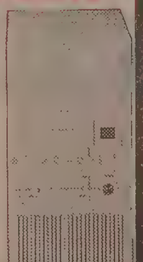

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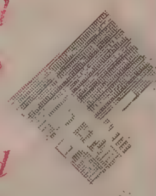

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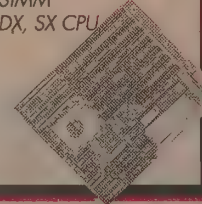

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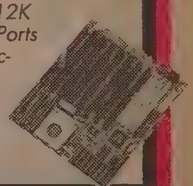

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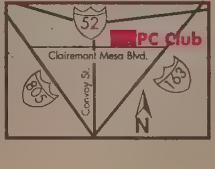

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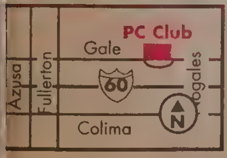

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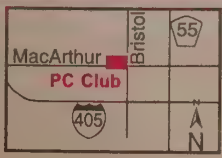

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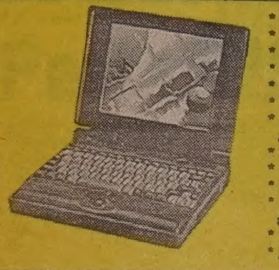

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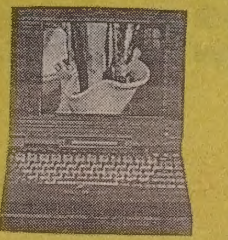

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- * 540 MB IDE hard drive
- * 32-bit IDE HD controller
- * 32-bit graphic accelerator w/1 MB
- * Proton 14" 1024 X 768 monitor .28 dp
- * Non-Interlaced, energy saving
- * 2 serial, parallel, & game ports
- * Enchanced 101 key keyboard
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The Dummies Phenomenon Continues Unabated

Or
They Shoot Horses, Don't They?

The following letter describes a situation aptly. The letter writer is anonymous.

At my [un-named] university, a [certain] professor [who will flunk me if she finds out that I wrote this] uses PowerPoint, Adobe Photoshop, a color scanner, a PB540C (12MB of RAM), a desktop Mac, and a 270MB SyQuest drive to:

1. Prepare lectures for the class
- *uses color scanner to scan images in from textbooks [has publisher's ok]*
- *incorporates images into PowerPoint and adds text via PowerPoint*

2. Says it takes about 10 hours to produce one 50-minute lecture.

3. Brings PB540C and some kind of projector that plugs into PB that throws image on large pull-down screen (like a view foil screen)

4. Does the lecture, unplugs the pieces, and takes equipment back to office.
- *lectures are three times a week.*

Note: The class was promised that all these lectures would be on "The Web" [in the beginning of the semester back in January] so:
- *we need not take close notes from the stuff shown in class, but only write "clarifying comments"*
- *and we can download the lectures to personally study [publishers' permission granted to put text and images on Web obtained]*

Fast forward to first week in March:
- *lectures still not on Web*

Second week in March:
- *lectures FINALLY on Web, we get the home page URL in class*
- *students ask "what is a URL, what is a WWW, and what is a Home Page?"*

I decide to try all this out:

I dial into the university, using PROCOM PRO, and endure the typical 65 "busy" redials to get connected. [this is normal dial-in, not SLIP, etc.]

I access the URL, and there is the home page and I find the list of lectures!

I pick a lecture and download it to my "workspace" associated with my university account.

I back out of the homepage and get back to my university system prompt, and prepare to download the file to my HD.

I use ZMODEM, and at 14.4, it takes 23 minutes to get the file, which I note is a PostScript file about 1.7MB.

I don't have a PostScript viewer, so I log back on and download GhostViewer, install it, and it works fine on small one-page .ps files, so I try it on "the lecture" and it blows up. Probable reason: I don't have enough RAM on my Windows machine. University comp center suggests 12MB at least. I've got a ThinkPad, so this costs $400+.

I say "The hell with it" and the comp center says "Yeah, people have Web-itis, and don't know what they are doing..."

ASIDE: One week a guest lecturer came in and put her files on the Web and they downloaded fine. They were small, and I used Word to view. Reason: She used MS Word and saved as text files, hand-made her view foils on a copier, hand-drew her pictures. She only put the text files on the Web, since the textbook we use "already has the pictures."

I try to work "gently" with the professor to "find another way" to get her notes out on the Web (like, text files, and maybe no images or JPEGS). But she blames the University comp center, saying that they don't know what they are doing, and simply tells the students in class "not to download, but just print the files to the local University printer." Cost is $.06/page; each student must establish a "printer" account and pay in advance.

I REST MY CASE

This is one of those great stories that I'm sure are running at an epidemic rate all around the country, especially with the proliferation of the WWW and the compelling need to use it.

In the above example, it seems to me that it would be easier for the professor to bring a computer to work and spend a few minutes after class and copy diskettes with the material in a simple format.

But when you find a professor who is unwilling to listen to more knowledgeable students, you have a problem. In fact the actual point of the story is that too many educators are still in a know-it-all mode that just doesn't work in this technological age. Even a good family doctor has discovered that patients sometimes know *something*. I've been shown more than a few tricks by my nine-year-old, and don't pretend to think that I am personally the fountainhead of all computer knowledge. I take the opposite approach and ask for tons of help. Heck, it's free most of the time. Take advantage of it.

Now can anybody figure out what school this was?

When you find a professor who is unwilling to listen to more knowledgeable students, you have a problem. Too many educators are still in a know-it-all mode that just doesn't work in this technological age.

And Now For Something Completely Different

Here's an interesting note culled from a friend:

Apparently a CD-ROM called the *Make 'Em Laugh 'Til It Hurts!* collection is about to be history.

Even though The Fun Group, the publisher, has a signed license to produce the collections, and written product approvals, one of the syndicators realized five to eight months later in December 1994 that they made a mistake. *Make 'Em Laugh 'Til It Hurts!* has five hundred nationally syndicated cartoons which can be used in a wide variety of ways, including on business newsletters and sales flyers. This $100 million syndicator suddenly realized they had licensed their lifeblood to The Fun Group for The Fun Group to sell for pennies on the dollar in terms of reprint fees.

Now, due to the syndicator's requests (threats, is my guess), The Fun Group has stopped selling the product.

However, one reseller, MicroWeb (1-800-888-0420), has about four hundred copies left at $89.95 and some of the other collections of one hundred cartoons for $39.95. Once those copies are gone, and a smaller number of units at PC/Mac Connection and CompUSA, this product will never return

And that is your tip of the month! ■

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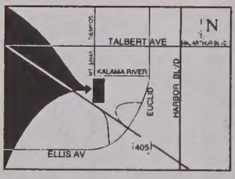

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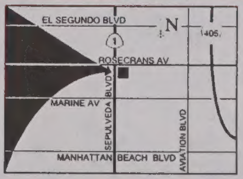

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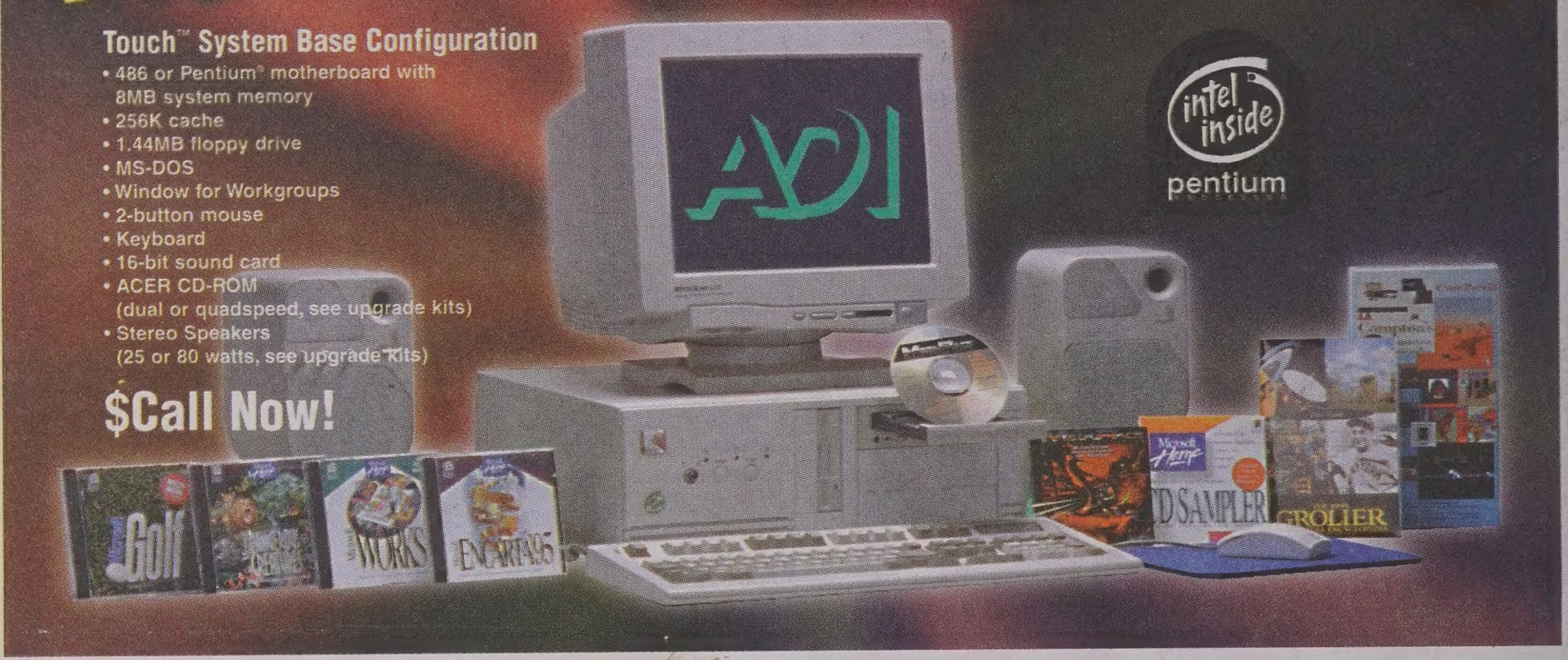

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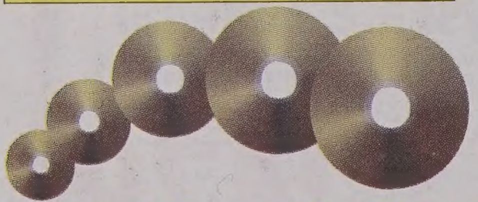

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